VERÖFFENTLICHUNG
DES KÖNIGL. PREUSZ. GEODÄTISCHEN INSTITUTES
NEUE FOLGE № 46

TAFEL DER WERTE

$$\frac{a \cdot b}{a+b}$$

FÜR ALLE ZWEISTELLIGEN WERTE VON a UND b
ZUR BERECHNUNG DER GEWICHTE VON SUMMEN, DIFFERENZEN, MITTELWERTEN USW.

BERECHNET VON

PROF. B. WANACH
OBSERVATOR AM KÖNIGL. GEODÄTISCHEN INSTITUT

POTSDAM

DRUCK UND VERLAG VON B. G. TEUBNER IN LEIPZIG
1910

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VORWORT UND EINLEITUNG.

Die vorliegende Tafel habe ich 1890 in Pulkowa berechnet und in den seither verflossenen 20 Jahren so häufig, namentlich für Zwecke des Internationalen Breitendienstes benutzt, daß ihre Veröffentlichung vielleicht nicht überflüssig sein wird.

Die Tafel enthält unmittelbar die auf 0.1 abgerundeten Gewichte

$$p = \frac{a \cdot b}{a + b} \tag{1}$$

der Summe oder Differenz zweier Größen, deren Gewichte a und b durch ein- oder zweistellige ganze Zahlen ausgedrückt sind. Diese Genauigkeit wird wohl meist genügen, da eine weitere Dezimale in den relativen Gewichten selten eine andere Bedeutung haben dürfte als die eines reinen Rechnungsresultats.

Sind die Gewichte aber etwa als Dezimalbrüche gegeben, oder ist das eine > 100, so kann man von der Identität

$$\frac{a \cdot b}{a + b} = \frac{1}{m} \cdot \frac{am \cdot bm}{am + bm} \tag{2}$$

Gebrauch machen, d. h. beide Gewichte mit demselben Faktor multiplizieren und das der Tafel entnommene Resultat wiederum dividieren, oder umgekehrt; beispielsweise gibt $a = 0.37$ und $b = 0.52$, indem man den mit 37 und 52 der Tafel entnommenen Wert 21.6 durch 100 dividiert, $p = 0.22$; oder $a = 123$, $b = 75$ gibt $\frac{a}{2} = 61.5$, $\frac{b}{2} = 37.5$, $p = 2 \times 23.3 = 47$.

Hat man das Gewicht einer algebraischen Summe von mehr als zwei Größen zu berechnen, deren Gewichte $p_1, p_2, p_3, p_4, \ldots p_n$ sein mögen, so entnimmt man der Tafel nacheinander die Werte

$$P_2 = \frac{p_1 p_2}{p_1 + p_2}, \quad P_3 = \frac{P_2 p_3}{P_2 + p_3}, \quad P_4 = \frac{P_3 p_4}{P_3 + p_4} \ldots$$

$$\ldots P_n = P_\Sigma = \frac{P_{n-1} p_n}{P_{n-1} + p_n}, \tag{3}$$

wobei, um eine größere Genauigkeit zu wahren, natürlich interpoliert werden muß.

Eine Anwendung findet dieses Verfahren in Fällen, wo das arithmetische Mittel mehrerer Größen von ver-

schiedenem Gewicht zu bilden ist, und nicht das „Mittel mit Gewichten"; dann nämlich, wenn die Größen mit systematischen Fehlern unbekannter Natur und Größe behaftet sind. Bei der Ableitung der Deklinationsverbesserungen für die Sternpaare des Internationalen Breitendienstes z. B. geben die einzelnen Stationen Werte von verschiedenem, von der Anzahl der Beobachtungen abhängigem Gewicht; da aber die Stationswerte mit systematischen Fehlern behaftet sind, die von Fehlern der angenommenen Schraubenwerte, von Refraktionsstörungen od. dgl. herrühren, so wäre es nicht richtig, die Stationswerte mit jenen Gewichten zu mitteln. Namentlich bei der Ableitung von Verbesserungen der angewandten Schraubenwerte aus diesen Stationswerten für die Deklinationsverbesserungen müssen einfache Mittel gebildet werden, deren relative Gewichte man für die weitere Verarbeitung braucht.

Ganz allgemein ist das Gewicht einer Funktion $F(x_1 x_2 x_3 \cdots)$, wenn man mit p_1, p_2, p_3, $\cdots$ die Gewichte der unabhängigen Größen x_1, x_2, x_3, $\cdots$ bezeichnet:

$$P_{(F)} = \frac{1}{\frac{1}{p_1}\left(\frac{\partial F}{\partial x_1}\right)^2 + \frac{1}{p_2}\left(\frac{\partial F}{\partial x_2}\right)^2 + \frac{1}{p_3}\left(\frac{\partial F}{\partial x_3}\right)^2 + \cdots}. \qquad (4)$$

Daraus ergibt sich das Gewicht des arithmetischen Mittels von n Größen:

$$P\left(\frac{\Sigma x}{n}\right) = n^2 P_{(\Sigma x)}. \qquad (5)$$

Wegen der Multiplikation mit n^2 empfiehlt es sich, bei den zur Bildung des Gewichts der Summe erforderlichen Interpolationen noch die Hundertstel mitzunehmen und erst nach der Multiplikation mit n^2 auf Ganze abzurunden.

Ist z. B. das Gewicht des arithmetischen Mittels von sechs Werten, deren Gewichte

$$9,\ 18,\ 38,\ 45,\ 33,\ 25$$

sind, zu berechnen, so ist es, da es auf die Reihenfolge der Summationen nicht ankommt, zulässig, und der Genauigkeit des Resultats wegen empfehlenswert, mit den größten Gewichten zu beginnen und mit den kleinsten zu schließen. Dann gestaltet sich die Rechnung mit der Tafel folgendermaßen:

45	33	25	18	9	
38	20.6	12.68	8.44	5.72	$3.49 \times 36 = 126$

oder genauer 125.6, während die Rechnung in umgekehrter Reihenfolge, wobei auch noch die Interpolationen wegen der größeren dabei vorkommenden Differenzen etwas unbequemer sind, 124.6 ergibt. Der genaue Wert ist

$$\frac{36}{\frac{1}{9}+\frac{1}{18}+\frac{1}{38}+\frac{1}{45}+\frac{1}{33}+\frac{1}{25}} = 126.1,$$

und davon weicht also die erste Rechnung nur um 0.5, die zweite aber um 1.5 ab.

Handelt es sich nur um das Gewicht des Mittels, so wird man natürlich die einzelnen Zahlen gar nicht erst hinschreiben, da ja bei den Interpolationen nur einstellige Differenzen vorkommen. Sind aber fernerhin Gewichte abzuleiten für die Differenzen zwischen den Einzelwerten und ihrem Mittelwert, so ist zu beachten, daß

$$\frac{\Sigma x}{n} - x_i = \frac{x_1 + x_2 + \cdots + x_{i-1} + x_{i+1} + \cdots + x_n - (n-1)x_i}{n} \qquad (6)$$

und daß das Gewicht von $(n-1)x_i$ gleich ist $\frac{p_i}{(n-1)^2}$, also in unserem Beispiel $\frac{1}{25}p_i$. Für diesen Fall ist es zweckmäßig, nach folgendem, wohl ohne weiteres verständlichem Schema zu rechnen, wobei man kolumnenweise fortschreitet und alles hier kursiv Gedruckte natürlich wieder nicht hinschreiben wird.

p	45	38	33	25	18	9		
$\frac{p}{25}$	1.8	1.52	1.32	1.00	0.72	0.36		
45	20.6	12.68	8.44	5.72	—	0.34	$\times 36 =$	12
45	*20.6*	*12.68*	*8.44*	—	4.33	0.61		22
45	*20.6*	*12.68*	—	7.40	4.02	0.80		29
45	*20.6*	—	11.28	6.91	3.87	0.99		36
45	—	19.0	10.8	6.72	3.82	1.09		39
—	*38*	17.7	10.38	6.55	3.76	1.22		44

Zu bemerken wäre hierzu allenfalls noch, daß bei Berechnung der vorletzten Kolumne aus der drittletzten und den Werten $\frac{p}{25}$ von der Gleichung (2) Gebrauch zu machen ist ($m = 10$).

Ich hoffe, daß die Tafel, die ich durchweg viermal unabhängig gerechnet habe, fehlerfrei sein wird, bitte aber, falls dennoch Fehler gefunden werden sollten, sie mir mitzuteilen.

Potsdam, im April 1910.

B. WANACH.

	1	2	3	4	5	6	7	8	9	
1	0.5	0.7	0.8	0.8	0.8	0.9	0.9	0.9	0.9	1
2	0.7	1.0	1.2	1.3	1.4	1.5	1.6	1.6	1.6	2
3	0.8	1.2	1.5	1.7	1.9	2.0	2.1	2.2	2.2	3
4	0.8	1.3	1.7	2.0	2.2	2.4	2.5	2.7	2.8	4
5	0.8	1.4	1.9	2.2	2.5	2.7	2.9	3.1	3.2	5
6	0.9	1.5	2.0	2.4	2.7	3.0	3.2	3.4	3.6	6
7	0.9	1.6	2.1	2.5	2.9	3.2	3.5	3.7	3.9	7
8	0.9	1.6	2.2	2.7	3.1	3.4	3.7	4.0	4.2	8
9	0.9	1.6	2.2	2.8	3.2	3.6	3.9	4.2	4.5	9
10	0.9	1.7	2.3	2.9	3.3	3.8	4.1	4.4	4.7	10
11	0.9	1.7	2.4	2.9	3.4	3.9	4.3	4.6	5.0	11
12	0.9	1.7	2.4	3.0	3.5	4.0	4.4	4.8	5.1	12
13	0.9	1.7	2.4	3.1	3.6	4.1	4.6	5.0	5.3	13
14	0.9	1.8	2.5	3.1	3.7	4.2	4.7	5.1	5.5	14
15	0.9	1.8	2.5	3.2	3.8	4.3	4.8	5.2	5.6	15
16	0.9	1.8	2.5	3.2	3.8	4.4	4.9	5.3	5.8	16
17	0.9	1.8	2.6	3.2	3.9	4.4	5.0	5.4	5.9	17
18	0.9	1.8	2.6	3.3	3.9	4.5	5.0	5.5	6.0	18
19	1.0	1.8	2.6	3.3	4.0	4.6	5.1	5.6	6.1	19
20	1.0	1.8	2.6	3.3	4.0	4.6	5.2	5.7	6.2	20
21	1.0	1.8	2.6	3.4	4.0	4.7	5.2	5.8	6.3	21
22	1.0	1.8	2.6	3.4	4.1	4.7	5.3	5.9	6.4	22
23	1.0	1.8	2.7	3.4	4.1	4.8	5.4	5.9	6.5	23
24	1.0	1.8	2.7	3.4	4.1	4.8	5.4	6.0	6.5	24
25	1.0	1.9	2.7	3.4	4.2	4.8	5.5	6.1	6.6	25
26	1.0	1.9	2.7	3.5	4.2	4.9	5.5	6.1	6.7	26
27	1.0	1.9	2.7	3.5	4.2	4.9	5.6	6.2	6.8	27
28	1.0	1.9	2.7	3.5	4.2	4.9	5.6	6.2	6.8	28
29	1.0	1.9	2.7	3.5	4.3	5.0	5.6	6.3	6.9	29
30	1.0	1.9	2.7	3.5	4.3	5.0	5.7	6.3	6.9	30
31	1.0	1.9	2.7	3.5	4.3	5.0	5.7	6.4	7.0	31
32	1.0	1.9	2.7	3.6	4.3	5.1	5.7	6.4	7.0	32
33	1.0	1.9	2.8	3.6	4.3	5.1	5.8	6.4	7.1	33
34	1.0	1.9	2.8	3.6	4.4	5.1	5.8	6.5	7.1	34
35	1.0	1.9	2.8	3.6	4.4	5.1	5.8	6.5	7.2	35
36	1.0	1.9	2.8	3.6	4.4	5.1	5.9	6.5	7.2	36
37	1.0	1.9	2.8	3.6	4.4	5.2	5.9	6.6	7.2	37
38	1.0	1.9	2.8	3.6	4.4	5.2	5.9	6.6	7.3	38
39	1.0	1.9	2.8	3.6	4.4	5.2	5.9	6.6	7.3	39
40	1.0	1.9	2.8	3.6	4.4	5.2	6.0	6.7	7.3	40
41	1.0	1.9	2.8	3 6	4.5	5.2	6.0	6.7	7.4	41
42	1.0	1.9	2.8	3.7	4.5	5.2	6.0	6.7	7.4	42
43	1.0	1.9	2.8	3.7	4.5	5.3	6.0	6.7	7.4	43
44	1.0	1.9	2.8	3.7	4.5	5.3	6.0	6.8	7.5	44
45	1.0	1.9	2.8	3.7	4.5	5.3	6.1	6.8	7.5	45
46	1.0	1.9	2.8	3.7	4.5	5.3	6.1	6.8	7.5	46
47	1.0	1.9	2.8	3.7	4.5	5.3	6.1	6.8	7.6	47
48	1.0	1.9	2.8	3.7	4.5	5.3	6.1	6.9	7.6	48
49	1.0	1.9	2.8	3.7	4.5	5.3	6.1	6.9	7.6	49
50	1.0	1.9	2.8	3.7	4.5	5.4	6.1	6.9	7.6	50
	1	2	3	4	5	6	7	8	9	

	1	2	3	4	5	6	7	8	9	
51	1.0	1.9	2.8	3.7	4.6	5.4	6.2	6.9	7.6	51
52	1.0	1.9	2.8	3.7	4.6	5.4	6.2	6.9	7.7	52
53	1.0	1.9	2.8	3.7	4.6	5.4	6.2	7.0	7.7	53
54	1.0	1.9	2.8	3.7	4.6	5.4	6.2	7.0	7.7	54
55	1.0	1.9	2.8	3.7	4.6	5.4	6.2	7.0	7.7	55
56	1.0	1.9	2.8	3.7	4.6	5.4	6.2	7.0	7.8	56
57	1.0	1.9	2.8	3.7	4.6	5.4	6.2	7.0	7.8	57
58	1.0	1.9	2.9	3.7	4.6	5.4	6.2	7.0	7.8	58
59	1.0	1.9	2.9	3.7	4.6	5.4	6.3	7.0	7.8	59
60	1.0	1.9	2.9	3.8	4.6	5.5	6.3	7.1	7.8	60
61	1.0	1.9	2.9	3.8	4.6	5.5	6.3	7.1	7.8	61
62	1.0	1.9	2.9	3.8	4.6	5.5	6.3	7.1	7.9	62
63	1.0	1.9	2.9	3.8	4.6	5.5	6.3	7.1	7.9	63
64	1.0	1.9	2.9	3.8	4.6	5.5	6.3	7.1	7.9	64
65	1.0	1.9	2.9	3.8	4.6	5.5	6.3	7.1	7.9	65
66	1.0	1.9	2.9	3.8	4.6	5.5	6.3	7.1	7.9	66
67	1.0	1.9	2.9	3.8	4.7	5.5	6.3	7.1	7.9	67
68	1.0	1.9	2.9	3.8	4.7	5.5	6.3	7.2	7.9	68
69	1.0	1.9	2.9	3.8	4.7	5.5	6.4	7.2	8.0	69
70	1.0	1.9	2.9	3.8	4.7	5.5	6.4	7.2	8.0	70
71	1.0	1.9	2.9	3.8	4.7	5.5	6.4	7.2	8.0	71
72	1.0	1.9	2.9	3.8	4.7	5.5	6.4	7.2	8.0	72
73	1.0	1.9	2.9	3.8	4.7	5.5	6.4	7.2	8.0	73
74	1.0	1.9	2.9	3.8	4.7	5.6	6.4	7.2	8.0	74
75	1.0	1.9	2.9	3.8	4.7	5.6	6.4	7.2	8.0	75
76	1.0	1.9	2.9	3.8	4.7	5.6	6.4	7.2	8.0	76
77	1.0	1.9	2.9	3.8	4.7	5.6	6.4	7.2	8.1	77
78	1.0	2.0	2.9	3.8	4.7	5.6	6.4	7.3	8.1	78
79	1.0	2.0	2.9	3.8	4.7	5.6	6.4	7.3	8.1	79
80	1.0	2.0	2.9	3.8	4.7	5.6	6.4	7.3	8.1	80
81	1.0	2.0	2.9	3.8	4.7	5.6	6.4	7.3	8.1	81
82	1.0	2.0	2.9	3.8	4.7	5.6	6.4	7.3	8.1	82
83	1.0	2.0	2.9	3.8	4.7	5.6	6.5	7.3	8.1	83
84	1.0	2.0	2.9	3.8	4.7	5.6	6.5	7.3	8.1	84
85	1.0	2.0	2.9	3.8	4.7	5.6	6.5	7.3	8.1	85
86	1.0	2.0	2.9	3.8	4.7	5.6	6.5	7.3	8.1	86
87	1.0	2.0	2.9	3.8	4.7	5.6	6.5	7.3	8.2	87
88	1.0	2.0	2.9	3.8	4.7	5.6	6.5	7.3	8.2	88
89	1.0	2.0	2.9	3.8	4.7	5.6	6.5	7.3	8.2	89
90	1.0	2.0	2.9	3.8	4.7	5.6	6.5	7.3	8.2	90
91	1.0	2.0	2.9	3.8	4.7	5.6	6.5	7.4	8.2	91
92	1.0	2.0	2.9	3.8	4.7	5.6	6.5	7.4	8.2	92
93	1.0	2.0	2.9	3.8	4.7	5.6	6.5	7.4	8.2	93
94	1.0	2.0	2.9	3.8	4.7	5.6	6.5	7.4	8.2	94
95	1.0	2.0	2.9	3.8	4.8	5.6	6.5	7.4	8.2	95
96	1.0	2.0	2.9	3.8	4.8	5.6	6.5	7.4	8.2	96
97	1.0	2.0	2.9	3.8	4.8	5.7	6.5	7.4	8.2	97
98	1.0	2.0	2.9	3.8	4.8	5.7	6.5	7.4	8.2	98
99	1.0	2.0	2.9	3.8	4.8	5.7	6.5	7.4	8.2	99
100	1.0	2.0	2.9	3.8	4.8	5.7	6.5	7.4	8.3	100
	1	2	3	4	5	6	7	8	9	

	10	11	12	13	14	15	16	17	18	19	
1	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.0	1
2	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8	2
3	2.3	2.4	2.4	2.4	2.5	2.5	2.5	2.6	2.6	2.6	3
4	2.9	2.9	3.0	3.1	3.1	3.2	3.2	3.2	3.3	3.3	4
5	3.3	3.4	3.5	3.6	3.7	3.8	3.8	3.9	3.9	4.0	5
6	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.4	4.5	4.6	6
7	4.1	4.3	4.4	4.6	4.7	4.8	4.9	5.0	5.0	5.1	7
8	4.4	4.6	4.8	5.0	5.1	5.2	5.3	5.4	5.5	5.6	8
9	4.7	5.0	5.1	5.3	5.5	5.6	5.8	5.9	6.0	6.1	9
10	5.0	5.2	5.5	5.7	5.8	6.0	6.2	6.3	6.4	6.6	10
11	5.2	5.5	5.7	6.0	6.2	6.3	6.5	6.7	6.8	7.0	11
12	5.5	5.7	6.0	6.2	6.5	6.7	6.9	7.0	7.2	7.4	12
13	5.7	6.0	6.2	6.5	6.7	7.0	7.2	7.4	7.5	7.7	13
14	5.8	6.2	6.5	6.7	7.0	7.2	7.5	7.7	7.9	8.1	14
15	6.0	6.3	6.7	7.0	7.2	7.5	7.7	8.0	8.2	8.4	15
16	6.2	6.5	6.9	7.2	7.5	7.7	8.0	8.2	8.5	8.7	16
17	6.3	6.7	7.0	7.4	7.7	8.0	8.2	8.5	8.7	9.0	17
18	6.4	6.8	7.2	7.5	7.9	8.2	8.5	8.7	9.0	9.2	18
19	6.6	7.0	7.4	7.7	8.1	8.4	8.7	9.0	9.2	9.5	19
20	6.7	7.1	7.5	7.9	8.2	8.6	8.9	9.2	9.5	9.7	20
21	6.8	7.2	7.6	8.0	8.4	8.8	9.1	9.4	9.7	10.0	21
22	6.9	7.3	7.8	8.2	8.6	8.9	9.3	9.6	9.9	10.2	22
23	7.0	7.4	7.9	8.3	8.7	9.1	9.4	9.8	10.1	10.4	23
24	7.1	7.5	8.0	8.4	8.8	9.2	9.6	10.0	10.3	10.6	24
25	7.1	7.6	8.1	8.6	9.0	9.4	9.8	10.1	10.5	10.8	25
26	7.2	7.7	8.2	8.7	9.1	9.5	9.9	10.3	10.6	11.0	26
27	7.3	7.8	8.3	8.8	9.2	9.6	10.0	10.4	10.8	11.2	27
28	7.4	7.9	8.4	8.9	9.3	9.8	10.2	10.6	11.0	11.3	28
29	7.4	8.0	8.5	9.0	9.4	9.9	10.3	10.7	11.1	11.5	29
30	7.5	8.0	8.6	9.1	9.5	10.0	10.4	10.9	11.2	11.6	30
31	7.6	8.1	8.7	9.2	9.6	10.1	10.6	11.0	11.4	11.8	31
32	7.6	8.2	8.7	9.2	9.7	10.2	10.7	11.1	11.5	11.9	32
33	7.7	8.2	8.8	9.3	9.8	10.3	10.8	11.2	11.6	12.1	33
34	7.7	8.3	8.9	9.4	9.9	10.4	10.9	11.3	11.8	12.2	34
35	7.8	8.4	8.9	9.5	10.0	10.5	11.0	11.4	11.9	12.3	35
36	7.8	8.4	9.0	9.6	10.1	10.6	11.1	11.5	12.0	12.4	36
37	7.9	8.5	9.1	9.6	10.2	10.7	11.2	11.6	12.1	12.6	37
38	7.9	8.5	9.1	9.7	10.2	10.8	11.3	11.7	12.2	12.7	38
39	8.0	8.6	9.2	9.8	10.3	10.8	11.3	11.8	12.3	12.8	39
40	8.0	8.6	9.2	9.8	10.4	10.9	11.4	11.9	12.4	12.9	40
41	8.0	8.7	9.3	9.9	10.4	11.0	11.5	12.0	12.5	13.0	41
42	8.1	8.7	9.3	9.9	10.5	11.1	11.6	12.1	12.6	13.1	42
43	8.1	8.8	9.4	10.0	10.6	11.1	11.7	12.2	12.7	13.2	43
44	8.1	8.8	9.4	10.0	10.6	11.2	11.7	12.3	12.8	13.3	44
45	8.2	8.8	9.5	10.1	10.7	11.2	11.8	12.3	12.9	13.4	45
46	8.2	8.9	9.5	10.1	10.7	11.3	11.9	12.4	12.9	13.4	46
47	8.2	8.9	9.6	10.2	10.8	11.4	11.9	12.5	13.0	13.5	47
48	8.3	8.9	9.6	10.2	10.8	11.4	12.0	12.6	13.1	13.6	48
49	8.3	9.0	9.6	10.3	10.9	11.5	12.1	12.6	13.2	13.7	49
50	8.3	9.0	9.7	10.3	10.9	11.5	12.1	12.7	13.2	13.8	50
	10	11	12	13	14	15	16	17	18	19	

	10	11	12	13	14	15	16	17	18	19	
51	8.4	9.0	9.7	10.4	11.0	11.6	12.2	12.8	13.3	13.8	51
52	8.4	9.1	9.8	10.4	11.0	11.6	12.2	12.8	13.4	13.9	52
53	8.4	9.1	9.8	10.4	11.1	11.7	12.3	12.9	13.4	14.0	53
54	8.4	9.1	9.8	10.5	11.1	11.7	12.3	12.9	13.5	14.1	54
55	8.5	9.2	9.9	10.5	11.2	11.8	12.4	13.0	13.6	14.1	55
56	8.5	9.2	9.9	10.6	11.2	11.8	12.4	13.0	13.6	14.2	56
57	8.5	9.2	9.9	10.6	11.2	11.9	12.5	13.1	13.7	14.2	57
58	8.5	9.2	9.9	10.6	11.3	11.9	12.5	13.1	13.7	14.3	58
59	8.6	9.3	10.0	10.7	11.3	12.0	12.6	13.2	13.8	14.4	59
60	8.6	9.3	10.0	10.7	11.4	12.0	12.6	13.2	13.8	14.4	60
61	8.6	9.3	10.0	10.7	11.4	12.0	12.7	13.3	13.9	14.5	61
62	8.6	9.3	10.1	10.7	11.4	12.1	12.7	13.3	14.0	14.5	62
63	8.6	9.4	10.1	10.8	11.5	12.1	12.8	13.4	14.0	14.6	63
64	8.6	9.4	10.1	10.8	11.5	12.2	12.8	13.4	14.0	14.7	64
65	8.7	9.4	10.1	10.8	11.5	12.2	12.8	13.5	14.1	14.7	65
66	8.7	9.4	10.2	10.9	11.6	12.2	12.9	13.5	14.1	14.8	66
67	8.7	9.4	10.2	10.9	11.6	12.3	12.9	13.6	14.2	14.8	67
68	8.7	9.5	10.2	10.9	11.6	12.3	13.0	13.6	14.2	14.9	68
69	8.7	9.5	10.2	10.9	11.6	12.3	13.0	13.6	14.3	14.9	69
70	8.8	9.5	10.2	11.0	11.7	12.4	13.0	13.7	14.3	14.9	70
71	8.8	9.5	10.3	11.0	11.7	12.4	13.1	13.7	14.4	15.0	71
72	8.8	9.5	10.3	11.0	11.7	12.4	13.1	13.8	14.4	15.0	72
73	8.8	9.6	10.3	11.0	11.7	12.4	13.1	13.8	14.4	15.1	73
74	8.8	9.6	10.3	11.1	11.8	12.5	13.2	13.8	14.5	15.1	74
75	8.8	9.6	10.3	11.1	11.8	12.5	13.2	13.9	14.5	15.2	75
76	8.8	9.6	10.4	11.1	11.8	12.5	13.2	13.9	14.6	15.2	76
77	8.9	9.6	10.4	11.1	11.8	12.6	13.2	13.9	14.6	15.2	77
78	8.9	9.6	10.4	11.1	11.9	12.6	13.3	14.0	14.6	15.3	78
79	8.9	9.7	10.4	11.2	11.9	12.6	13.3	14.0	14.7	15.3	79
80	8.9	9.7	10.4	11.2	11.9	12.6	13.3	14.0	14.7	15.4	80
81	8.9	9.7	10.5	11.2	11.9	12.7	13.4	14.1	14.7	15.4	81
82	8.9	9.7	10.5	11.2	12.0	12.7	13.4	14.1	14.8	15.4	82
83	8.9	9.7	10.5	11.2	12.0	12.7	13.4	14.1	14.8	15.5	83
84	8.9	9.7	10.5	11.3	12.0	12.7	13.4	14.1	14.8	15.5	84
85	8.9	9.7	10.5	11.3	12.0	12.8	13.5	14.2	14.9	15.5	85
86	9.0	9.8	10.5	11.3	12.0	12.8	13.5	14.2	14.9	15.6	86
87	9.0	9.8	10.5	11.3	12.1	12.8	13.5	14.2	14.9	15.6	87
88	9.0	9.8	10.6	11.3	12.1	12.8	13.5	14.2	14.9	15.6	88
89	9.0	9.8	10.6	11.3	12.1	12.8	13.6	14.3	15.0	15.7	89
90	9.0	9.8	10.6	11.4	12.1	12.9	13.6	14.3	15.0	15.7	90
91	9.0	9.8	10.6	11.4	12.1	12.9	13.6	14.3	15.0	15.7	91
92	9.0	9.8	10.6	11.4	12.2	12.9	13.6	14.3	15.1	15.7	92
93	9.0	9.8	10.6	11.4	12.2	12.9	13.7	14.4	15.1	15.8	93
94	9.0	9.8	10.6	11.4	12.2	12.9	13.7	14.4	15.1	15.8	94
95	9.0	9.9	10.7	11.4	12.2	13.0	13.7	14.4	15.1	15.8	95
96	9.1	9.9	10.7	11.4	12.2	13.0	13.7	14.4	15.2	15.9	96
97	9.1	9.9	10.7	11.5	12.2	13.0	13.7	14.5	15.2	15.9	97
98	9.1	9.9	10.7	11.5	12.2	13.0	13.8	14.5	15.2	15.9	98
99	9.1	9.9	10.7	11.5	12.3	13.0	13.8	14.5	15.2	15.9	99
100	9.1	9.9	10.7	11.5	12.3	13.0	13.8	14.5	15.3	16.0	100
	10	11	12	13	14	15	16	17	18	19	

	20	21	22	23	24	25	26	27	28	29	
1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1
2	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	2
3	2.6	2.6	2.6	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3
4	3.3	3.4	3.4	3.4	3.4	3.4	3.5	3.5	3.5	3.5	4
5	4.0	4.0	4.1	4.1	4.1	4.2	4.2	4.2	4.2	4.3	5
6	4.6	4.7	4.7	4.8	4·8	4.8	4.9	4.9	4.9	5.0	6
7	5.2	5.2	5.3	5.4	5.4	5.5	5.5	5.6	5.6	5.6	7
8	5.7	5.8	5.9	5.9	6.0	6.1	6.1	6.2	6.2	6.3	8
9	6.2	6.3	6.4	6.5	6.5	6.6	6.7	6.8	6.8	6.9	9
10	6.7	6.8	6.9	7.0	7.1	7.1	7.2	7.3	7.4	7.4	10
11	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	11
12	7.5	7.6	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8·5	12
13	7.9	8.0	8.2	8.3	8.4	8.6	8.7	8.8	8.9	9.0	13
14	8.2	8.4	8.6	8.7	8.8	9.0	9.1	9.2	9.3	9.4	14
15	8.6	8.8	8.9	9.1	9.2	9.4	9.5	9.6	9.8	9.9	15
16	8.9	9.1	9.3	9.4	9.6	9.8	9.9	10.0	10.2	10.3	16
17	9.2	9.4	9.6	9.8	10.0	10.1	10.3	10.4	10.6	10.7	17
18	9.5	9.7	9.9	10.1	10.3	10.5	10.6	10.8	11.0	11.1	18
19	9.7	10.0	10.2	10.4	10.6	10.8	11.0	11.2	11.3	11.5	19
20	10.0	10.2	10.5	10.7	10.9	11.1	11.3	11.5	11.7	11.8	20
21	10.2	10.5	10.7	11.0	11.2	11.4	11.6	11.8	12.0	12.2	21
22	10.5	10.7	11.0	11.2	11.5	11.7	11.9	12.1	12.3	12.5	22
23	10.7	11.0	11.2	11.5	11.7	12.0	12.2	12.4	12.6	12.8	23
24	10.9	11.2	11.5	11.7	12.0	12.2	12.5	12.7	12.9	13.1	24
25	11.1	11.4	11.7	12.0	12.2	12.5	12.7	13.0	13.2	13.4	25
26	11.3	11.6	11.9	12.2	12.5	12.7	13.0	13.2	13.5	13.7	26
27	11.5	11.8	12.1	12.4	12.7	13.0	13.2	13.5	13.7	14.0	27
28	11.7	12.0	12.3	12.6	12.9	13.2	13.5	13.7	14.0	14.2	28
29	11.8	12.2	12.5	12.8	13.1	13.4	13.7	14.0	14.2	14.5	29
30	12.0	12.4	12.7	13.0	13.3	13.6	13.9	14.2	14.5	14.7	30
31	12.2	12.5	12.9	13.2	13.5	13.8	14.1	14.4	14.7	15.0	31
32	12.3	12.7	13.0	13.4	13.7	14.0	14.3	14.6	14.9	15.2	32
33	12.5	12.8	13.2	13.6	13.9	14.2	14.5	14.8	15.1	15.4	33
34	12.6	13.0	13.4	13.7	14.1	14.4	14.7	15.0	15.4	15.7	34
35	12.7	13.1	13.5	13.9	14.2	14.6	14.9	15.2	15.6	15.9	35
36	12.9	13.3	13.7	14.0	14.4	14.8	15.1	15.4	15.8	16.1	36
37	13.0	13.4	13.8	14.2	14.6	14.9	15.3	15.6	15.9	16.3	37
38	13.1	13.5	13.9	14.3	14.7	15.1	15.4	15.8	16.1	16.4	38
39	13.2	13.6	14.1	14.5	14.9	15.2	15.6	16.0	16.3	16.6	39
40	13.3	13.8	14.2	14.6	15.0	15.4	15.8	16.1	16.5	16.8	40
41	13.4	13.9	14.3	14.7	15.1	15.5	15.9	16.3	16.6	17.0	41
42	13.5	14.0	14.4	14.9	15.3	15.7	16.1	16.4	16.8	17.2	42
43	13.7	14.1	14.6	15.0	15.4	15.8	16.2	16.6	17.0	17.3	43
44	13.8	14.2	14.7	15.1	15.5	15.9	16.3	16.7	17.1	17.5	44
45	13.8	14.3	14.8	15.2	15.7	16.1	16.5	16.9	17.3	17.6	45
46	13.9	14.4	14.9	15.3	15.8	16.2	16.6	17.0	17.4	17.8	46
47	14.0	14.5	15.0	15.4	15.9	16.3	16.7	17.1	17.5	17.9	47
48	14.1	14.6	15.1	15.5	16.0	16.4	16.9	17.3	17.7	18.1	48
49	14.2	14.7	15.2	15.7	16.1	16.6	17.0	17.4	17.8	18.2	49
50	14.3	14.8	15.3	15.8	16.2	16.7	17.1	17.5	17.9	18.4	50
	20	21	22	23	24	25	26	27	28	29	

	20	21	22	23	24	25	26	27	28	29	
51	14.4	14.9	15.4	15.9	16.3	16.8	17.2	17.7	18.1	18.5	51
52	14.4	15.0	15.5	15.9	16.4	16.9	17.3	17.8	18.2	18.6	52
53	14.5	15.0	15.5	16.0	16.5	17.0	17.4	17.9	18.3	18.7	53
54	14.6	15.1	15.6	16.1	16.6	17.1	17.6	18.0	18.4	18.9	54
55	14.7	15.2	15.7	16.2	16.7	17.2	17.7	18.1	18.6	19.0	55
56	14.7	15.3	15.8	16.3	16.8	17.3	17.8	18.2	18.7	19.1	56
57	14.8	15.3	15.9	16.4	16.9	17.4	17.9	18.3	18.8	19.2	57
58	14.9	15.4	16.0	16.5	17.0	17.5	18.0	18.4	18.9	19.3	58
59	14.9	15.5	16.0	16.5	17.1	17.6	18.0	18.5	19.0	19.4	59
60	15.0	15.6	16.1	16.6	17.1	17.6	18.1	18.6	19.1	19.6	60
61	15.1	15.6	16.2	16.7	17.2	17.7	18.2	18.7	19.2	19.7	61
62	15.1	15.7	16.2	16.8	17.3	17.8	18.3	18.8	19.3	19.8	62
63	15.2	15.8	16.3	16.8	17.4	17.9	18.4	18.9	19.4	19.9	63
64	15.2	15.8	16.4	16.9	17.5	18.0	18.5	19.0	19.5	20.0	64
65	15.3	15.9	16.4	17.0	17.5	18.1	18.6	19.1	19.6	20.1	65
66	15.3	15.9	16.5	17.1	17.6	18.1	18.7	19.2	19.7	20.1	66
67	15.4	16.0	16.6	17.1	17.7	18.2	18.7	19.2	19.7	20.2	67
68	15.5	16.0	16.6	17.2	17.7	18.3	18.8	19.3	19.8	20.3	68
69	15.5	16.1	16.7	17.2	17.8	18.4	18.9	19.4	19.9	20.4	69
70	15.6	16.2	16.7	17.3	17.9	18.4	19.0	19.5	20.0	20.5	70
71	15.6	16.2	16.8	17.4	17.9	18.5	19.0	19.6	20.1	20.6	71
72	15.7	16.3	16.9	17.4	18.0	18.6	19.1	19.6	20.2	20.7	72
73	15.7	16.3	16.9	17.5	18.1	18.6	19.2	19.7	20.2	20.8	73
74	15.7	16.4	17.0	17.5	18.1	18.7	19.2	19.8	20.3	20.8	74
75	15.8	16.4	17.0	17.6	18.2	18.8	19.3	19.9	20.4	20.9	75
76	15.8	16.5	17.1	17.7	18.2	18.8	19.4	19.9	20.5	21.0	76
77	15.9	16.5	17.1	17.7	18.3	18.9	19.4	20.0	20.5	21.1	77
78	15.9	16.5	17.2	17.8	18.4	18.9	19.5	20.1	20.6	21.1	78
79	16.0	16.6	17.2	17.8	18.4	19.0	19.6	20.1	20.7	21.2	79
80	16.0	16.6	17.3	17.9	18.5	19.0	19.6	20.2	20.7	21.3	80
81	16.0	16.7	17.3	17.9	18.5	19.1	19.7	20.2	20.8	21.4	81
82	16.1	16.7	17.3	18.0	18.6	19.2	19.7	20.3	20.9	21.4	82
83	16.1	16.8	17.4	18.0	18.6	19.2	19.8	20.4	20.9	21.5	83
84	16.2	16.8	17.4	18.1	18.7	19.3	19.9	20.4	21.0	21.6	84
85	16.2	16.8	17.5	18.1	18.7	19.3	19.9	20.5	21.1	21.6	85
86	16.2	16.9	17.5	18.1	18.8	19.4	20.0	20.5	21.1	21.7	86
87	16.3	16.9	17.6	18.2	18.8	19.4	20.0	20.6	21.2	21.8	87
88	16.3	17.0	17.6	18.2	18.9	19.5	20.1	20.7	21.2	21.8	88
89	16.3	17.0	17.6	18.3	18.9	19.5	20.1	20.7	21.3	21.9	89
90	16.4	17.0	17.7	18.3	18.9	19.6	20.2	20.8	21.4	21.9	90
91	16.4	17.1	17.7	18.4	19.0	19.6	20.2	20.8	21.4	22.0	91
92	16.4	17.1	17.8	18.4	19.0	19.7	20.3	20.9	21.5	22.0	92
93	16.5	17.1	17.8	18.4	19.1	19.7	20.3	20.9	21.5	22.1	93
94	16.5	17.2	17.8	18.5	19.1	19.7	20.4	21.0	21.6	22.2	94
95	16.5	17.2	17.9	18.5	19.2	19.8	20.4	21.0	21.6	22.2	95
96	16.6	17.2	17.9	18.6	19.2	19.8	20.5	21.1	21.7	22.3	96
97	16.6	17.3	17.9	18.6	19.2	19.9	20.5	21.1	21.7	22.3	97
98	16.6	17.3	18.0	18.6	19.3	19.9	20.5	21.2	21.8	22.4	98
99	16.6	17.3	18.0	18.7	19.3	20.0	20.6	21.2	21.8	22.4	99
100	16.7	17.4	18.0	18.7	19.4	20.0	20.6	21.3	21.9	22.5	100
	20	21	22	23	24	25	26	27	28	29	

	30	31	32	33	34	35	36	37	38	39	
1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1
2	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2
3	2.7	2.7	2.7	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3
4	3.5	3.5	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4
5	4.3	4.3	4.3	4.3	4.4	4.4	4.4	4.4	4.4	4.4	5
6	5.0	5.0	5.1	5.1	5.1	5.1	5.1	5.2	5.2	5.2	6
7	5.7	5.7	5.7	5.8	5.8	5.8	5.9	5.9	5.9	5.9	7
8	6.3	6.4	6.4	6.4	6.5	6.5	6.5	6.6	6.6	6.6	8
9	6.9	7.0	7.0	7.1	7.1	7.2	7.2	7.2	7.3	7.3	9
10	7.5	7.6	7.6	7.7	7.7	7.8	7.8	7.9	7.9	8.0	10
11	8.0	8.1	8.2	8.2	8.3	8.4	8.4	8.5	8.5	8.6	11
12	8.6	8.7	8.7	8.8	8.9	8.9	9.0	9.1	9.1	9.2	12
13	9.1	9.2	9.2	9.3	9.4	9.5	9.6	9.6	9.7	9.8	13
14	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.2	10.3	14
15	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.8	15
16	10.4	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.3	16
17	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	17
18	11.2	11.4	11.5	11.6	11.8	11.9	12.0	12.1	12.2	12.3	18
19	11.6	11.8	11.9	12.1	12.2	12.3	12.4	12.6	12.7	12.8	19
20	12.0	12.2	12.3	12.5	12.6	12.7	12.9	13.0	13.1	13.2	20
21	12.4	12.5	12.7	12.8	13.0	13.1	13.3	13.4	13.5	13.6	21
22	12.7	12.9	13.0	13.2	13.4	13.5	13.7	13.8	13.9	14.1	22
23	13.0	13.2	13.4	13.6	13.7	13.9	14.0	14.2	14.3	14.5	23
24	13.3	13.5	13.7	13.9	14.1	14.2	14.4	14.6	14.7	14.9	24
25	13.6	13.8	14.0	14.2	14.4	14.6	14.8	14.9	15.1	15.2	25
26	13.9	14.1	14.3	14.5	14.7	14.9	15.1	15.3	15.4	15.6	26
27	14.2	14.4	14.6	14.8	15.0	15.2	15.4	15.6	15.8	16.0	27
28	14.5	14.7	14.9	15.1	15.4	15.6	15.8	15.9	16.1	16.3	28
29	14.7	15.0	15.2	15.4	15.7	15.9	16.1	16.3	16.4	16.6	29
30	15.0	15.2	15.5	15.7	15.9	16.2	16.4	16.6	16.8	17.0	30
31	15.2	15.5	15.7	16.0	16.2	16.4	16.7	16.9	17.1	17.3	31
32	15.5	15.7	16.0	16.2	16.5	16.7	16.9	17.2	17.4	17.6	32
33	15.7	16.0	16.2	16.5	16.7	17.0	17.2	17.4	17.7	17.9	33
34	15.9	16.2	16.5	16.7	17.0	17.2	17.5	17.7	17.9	18.2	34
35	16.2	16.4	16.7	17.0	17.2	17.5	17.7	18.0	18.2	18.4	35
36	16.4	16.7	16.9	17.2	17.5	17.7	18.0	18.2	18.5	18.7	36
37	16.6	16.9	17.2	17.4	17.7	18.0	18.2	18.5	18.7	19.0	37
38	16.8	17.1	17.4	17.7	17.9	18.2	18.5	18.7	19.0	19.2	38
39	17.0	17.3	17.6	17.9	18.2	18.4	18.7	19.0	19.2	19.5	39
40	17.1	17.5	17.8	18.1	18.4	18.7	18.9	19.2	19.5	19.7	40
41	17.3	17.7	18.0	18.3	18.6	18.9	19.2	19.4	19.7	20.0	41
42	17.5	17.8	18.2	18.5	18.8	19.1	19.4	19.7	20.0	20.2	42
43	17.7	18.0	18.3	18.7	19.0	19.3	19.6	19.9	20.2	20.5	43
44	17.8	18.2	18.5	18.9	19.2	19.5	19.8	20.1	20.4	20.7	44
45	18.0	18.4	18.7	19.0	19.4	19.7	20.0	20.3	20.6	20.9	45
46	18.2	18.5	18.9	19.2	19.6	19.9	20.2	20.5	20.8	21.1	46
47	18.3	18.7	19.0	19.4	19.7	20.1	20.4	20.7	21.0	21.3	47
48	18.5	18.8	19.2	19.6	19.9	20.2	20.6	20.9	21.2	21.5	48
49	18.6	19.0	19.4	19.7	20.1	20.4	20.8	21.1	21.4	21.7	49
50	18.8	19.1	19.5	19.9	20.2	20.6	20.9	21.3	21.6	21.9	50
	30	31	32	33	34	35	36	37	38	39	

	30	31	32	33	34	35	36	37	38	39	
51	18.9	19.3	19.7	20.0	20.4	20.8	21.1	21.4	21.8	22.1	51
52	19.0	19.4	19.8	20.2	20.6	20.9	21.3	21.6	22.0	22.3	52
53	19.2	19.6	20.0	20.3	20.7	21.1	21.4	21.8	22.1	22.5	53
54	19.3	19.7	20.1	20.5	20.9	21.2	21.6	22.0	22.3	22.6	54
55	19.4	19.8	20.2	20.6	21.0	21.4	21.8	22.1	22.5	22.8	55
56	19.5	20.0	20.4	20.8	21.2	21.5	21.9	22.3	22.6	23.0	56
57	19.7	20.1	20.5	20.9	21.3	21.7	22.1	22.4	22.8	23.2	57
58	19.8	20.2	20.6	21.0	21.4	21.8	22.2	22.6	23.0	23.3	58
59	19.9	20.3	20.7	21.2	21.6	22.0	22.4	22.7	23.1	23.5	59
60	20.0	20.4	20.9	21.3	21.7	22.1	22.5	22.9	23.3	23.6	60
61	20.1	20.6	21.0	21.4	21.8	22.2	22.6	23.0	23.4	23.8	61
62	20.2	20.7	21.1	21.5	22.0	22.4	22.8	23.2	23.6	23.9	62
63	20.3	20.8	21.2	21.7	22.1	22.5	22.9	23.3	23.7	24.1	63
64	20.4	20.9	21.3	21.8	22.2	22.6	23.0	23.4	23.8	24.2	64
65	20.5	21.0	21.4	21.9	22.3	22.8	23.2	23.6	24.0	24.4	65
66	20.6	21.1	21.6	22.0	22.4	22.9	23.3	23.7	24.1	24.5	66
67	20.7	21.2	21.7	22.1	22.6	23.0	23.4	23.8	24.2	24.7	67
68	20.8	21.3	21.8	22.2	22.7	23.1	23.5	24.0	24.4	24.8	68
69	20.9	21.4	21.9	22.3	22.8	23.2	23.7	24.1	24.5	24.9	69
70	21.0	21.5	22.0	22.4	22.9	23.3	23.8	24.2	24.6	25.0	70
71	21.1	21.6	22.1	22.5	23.0	23.4	23.9	24.3	24.8	25.2	71
72	21.2	21.7	22.2	22.6	23.1	23.6	24.0	24.4	24.9	25.3	72
73	21.3	21.8	22.2	22.7	23.2	23.7	24.1	24.6	25.0	25.4	73
74	21.3	21.8	22.3	22.8	23.3	23.8	24.2	24.7	25.1	25.5	74
75	21.4	21.9	22.4	22.9	23.4	23.9	24.3	24.8	25.2	25.7	75
76	21.5	22.0	22.5	23.0	23.5	24.0	24.4	24.9	25.3	25.8	76
77	21.6	22.1	22.6	23.1	23.6	24.1	24.5	25.0	25.4	25.9	77
78	21.7	22.2	22.7	23.2	23.7	24.2	24.6	25.1	25.6	26.0	78
79	21.7	22.3	22.8	23.3	23.8	24.3	24.7	25.2	25.7	26.1	79
80	21.8	22.3	22.9	23.4	23.9	24.3	24.8	25.3	25.8	26.2	80
81	21.9	22.4	22.9	23.4	23.9	24.4	24.9	25.4	25.9	26.3	81
82	22.0	22.5	23.0	23.5	24.0	24.5	25.0	25.5	26.0	26.4	82
83	22.0	22.6	23.1	23.6	24.1	24.6	25.1	25.6	26.1	26.5	83
84	22.1	22.6	23.2	23.7	24.2	24.7	25.2	25.7	26.2	26.6	84
85	22.2	22.7	23.2	23.8	24.3	24.8	25.3	25.8	26.3	26.7	85
86	22.2	22.8	23.3	23.8	24.4	24.9	25.4	25.9	26.4	26.8	86
87	22.3	22.9	23.4	23.9	24.4	25.0	25.5	26.0	26.4	26.9	87
88	22.4	22.9	23.5	24.0	24.5	25.0	25.5	26.0	26.5	27.0	88
89	22.4	23.0	23.5	24.1	24.6	25.1	25.6	26.1	26.6	27.1	89
90	22.5	23.1	23.6	24.1	24.7	25.2	25.7	26.2	26.7	27.2	90
91	22.6	23.1	23.7	24.2	24.8	25.3	25.8	26.3	26.8	27.3	91
92	22.6	23.2	23.7	24.3	24.8	25.4	25.9	26.4	26.9	27.4	92
93	22.7	23.2	23.8	24.4	24.9	25.4	26.0	26.5	27.0	27.5	93
94	22.7	23.3	23.9	24.4	25.0	25.5	26.0	26.5	27.1	27.6	94
95	22.8	23.4	23.9	24.5	25.0	25.6	26.1	26.6	27.1	27.6	95
96	22.9	23.4	24.0	24.6	25.1	25.6	26.2	26.7	27.2	27.7	96
97	22.9	23.5	24.1	24.6	25.2	25.7	26.3	26.8	27.3	27.8	97
98	23.0	23.6	24.1	24.7	25.2	25.8	26.3	26.9	27.4	27.9	98
99	23.0	23.6	24.2	24.8	25.3	25.9	26.4	26.9	27.5	28.0	99
100	23.1	23.7	24.2	24.8	25.4	25.9	26.5	27.0	27.5	28.1	100
	30	31	32	33	34	35	36	37	38	39	

	40	41	42	43	44	45	46	47	48	49	
1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1
2	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2
3	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3
4	3.6	3.6	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	4
5	4.4	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5
6	5.2	5.2	5.2	5.3	5.3	5.3	5.3	5.3	5.3	5.3	6
7	6.0	6.0	6.0	6.0	6.0	6.1	6.1	6.1	6.1	6.1	7
8	6.7	6.7	6.7	6.7	6.8	6.8	6.8	6.8	6.9	6.9	8
9	7.3	7.4	7.4	7.4	7.5	7.5	7.5	7.6	7.6	7.6	9
10	8.0	8.0	8.1	8.1	8.1	8.2	8.2	8.2	8.3	8.3	10
11	8.6	8.7	8.7	8.8	8.8	8.8	8.9	8.9	8.9	9.0	11
12	9.2	9.3	9.3	9.4	9.4	9.5	9.5	9.6	9.6	9.6	12
13	9.8	9.9	9.9	10.0	10.0	10.1	10.1	10.2	10.2	10.3	13
14	10.4	10.4	10.5	10.6	10.6	10.7	10.7	10.8	10.8	10.9	14
15	10.9	11.0	11.1	11.1	11.2	11.2	11.3	11.4	11.4	11.5	15
16	11.4	11.5	11.6	11.7	11.7	11.8	11.9	11.9	12.0	12.1	16
17	11.9	12.0	12.1	12.2	12.3	12.3	12.4	12.5	12.6	12.6	17
18	12.4	12.5	12.6	12.7	12.8	12.9	12.9	13.0	13.1	13.2	18
19	12.9	13.0	13.1	13.2	13.3	13.4	13.4	13.5	13.6	13.7	19
20	13.3	13.4	13.5	13.7	13.8	13.8	13.9	14.0	14.1	14.2	20
21	13.8	13.9	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	21
22	14.2	14.3	14.4	14.6	14.7	14.8	14.9	15.0	15.1	15.2	22
23	14.6	14.7	14.9	15.0	15.1	15.2	15.3	15.4	15.5	15.7	23
24	15.0	15.1	15.3	15.4	15.5	15.7	15.8	15.9	16.0	16.1	24
25	15.4	15.5	15.7	15.8	15.9	16.1	16.2	16.3	16.4	16.6	25
26	15.8	15.9	16.1	16.2	16.3	16.5	16.6	16.7	16.9	17.0	26
27	16.1	16.3	16.4	16.6	16.7	16.9	17.0	17.1	17.3	17.4	27
28	16.5	16.6	16.8	17.0	17.1	17.3	17.4	17.5	17.7	17.8	28
29	16.8	17.0	17.2	17.3	17.5	17.6	17.8	17.9	18.1	18.2	29
30	17.1	17.3	17.5	17.7	17.8	18.0	18.2	18.3	18.5	18.6	30
31	17.5	17.7	17.8	18.0	18.2	18.4	18.5	18.7	18.8	19.0	31
32	17.8	18.0	18.2	18.3	18.5	18.7	18.9	19.0	19.2	19.4	32
33	18.1	18.3	18.5	18.7	18.9	19.0	19.2	19.4	19.6	19.7	33
34	18.4	18.6	18.8	19.0	19.2	19.4	19.6	19.7	19.9	20.1	34
35	18.7	18.9	19.1	19.3	19.5	19.7	19.9	20.1	20.2	20.4	35
36	18.9	19.2	19.4	19.6	19.8	20.0	20.2	20.4	20.6	20.8	36
37	19.2	19.4	19.7	19.9	20.1	20.3	20.5	20.7	20.9	21.1	37
38	19.5	19.7	20.0	20.2	20.4	20.6	20.8	21.0	21.2	21.4	38
39	19.7	20.0	20.2	20.5	20.7	20.9	21.1	21.3	21.5	21.7	39
40	20.0	20.2	20.5	20.7	21.0	21.2	21.4	21.6	21.8	22.0	40
41	20.2	20.5	20.7	21.0	21.2	21.5	21.7	21.9	22.1	22.3	41
42	20.5	20.7	21.0	21.2	21.5	21.7	22.0	22.2	22.4	22.6	42
43	20.7	21.0	21.2	21.5	21.7	22.0	22.2	22.5	22.7	22.9	43
44	21.0	21.2	21.5	21.7	22.0	22.2	22.5	22.7	23.0	23.2	44
45	21.2	21.5	21.7	22.0	22.2	22.5	22.7	23.0	23.2	23.5	45
46	21.4	21.7	22.0	22.2	22.5	22.7	23.0	23.2	23.5	23.7	46
47	21.6	21.9	22.2	22.5	22.7	23.0	23.2	23.5	23.7	24.0	47
48	21.8	22.1	22.4	22.7	23.0	23.2	23.5	23.7	24.0	24.2	48
49	22.0	22.3	22.6	22.9	23.2	23.5	23.7	24.0	24.2	24.5	49
50	22.2	22.5	22.8	23.1	23.4	23.7	24.0	24.2	24.5	24.7	50
	40	41	42	43	44	45	46	47	48	49	

	40	41	42	43	44	45	46	47	48	49	
51	22.4	22.7	23.0	23.3	23.6	23.9	24.2	24.5	24.7	25.0	51
52	22.6	22.9	23.2	23.5	23.8	24.1	24.4	24.7	25.0	25.2	52
53	22.8	23.1	23.4	23.7	24.0	24.3	24.6	24.9	25.2	25.5	53
54	23.0	23.3	23.6	23.9	24.2	24.5	24.8	25.1	25.4	25.7	54
55	23.2	23.5	23.8	24.1	24.4	24.8	25.0	25.3	25.6	25.9	55
56	23.3	23.7	24.0	24.3	24.6	25.0	25.3	25.6	25.8	26.1	56
57	23.5	23.8	24.2	24.5	24.8	25.1	25.5	25.8	26.1	26.3	57
58	23.7	24.0	24.4	24.7	25.0	25.3	25.7	26.0	26.3	26.6	58
59	23.8	24.2	24.5	24.9	25.2	25.5	25.8	26.2	26.5	26.8	59
60	24.0	24.4	24.7	25.0	25.4	25.7	26.0	26.4	26.7	27.0	60
61	24.2	24.5	24.9	25.2	25.6	25.9	26.2	26.5	26.9	27.2	61
62	24.3	24.7	25.0	25.4	25.7	26.1	26.4	26.7	27.1	27.4	62
63	24.5	24.8	25.2	25.6	25.9	26.2	26.6	26.9	27.2	27.6	63
64	24.6	25.0	25.4	25.7	26.1	26.4	26.8	27.1	27.4	27.8	64
65	24.8	25.1	25.5	25.9	26.2	26.6	26.9	27.3	27.6	27.9	65
66	24.9	25.3	25.7	26.0	26.4	26.8	27.1	27.5	27.8	28.1	66
67	25.0	25.4	25.8	26.2	26.6	26.9	27.3	27.6	28.0	28.3	67
68	25.2	25.6	26.0	26.3	26.7	27.1	27.4	27.8	28.1	28.5	68
69	25.3	25.7	26.1	26.5	26.9	27.2	27.6	28.0	28.3	28.7	69
70	25.5	25.9	26.2	26.6	27.0	27.4	27.8	28.1	28.5	28.8	70
71	25.6	26.0	26.4	26.8	27.2	27.5	27.9	28.3	28.6	29.0	71
72	25.7	26.1	26.5	26.9	27.3	27.7	28.1	28.4	28.8	29.2	72
73	25.8	26.3	26.7	27.1	27.5	27.8	28.2	28.6	29.0	29.3	73
74	26.0	26.4	26.8	27.2	27.6	28.0	28.4	28.7	29.1	29.5	74
75	26.1	26.5	26.9	27.3	27.7	28.1	28.5	28.9	29.3	29.6	75
76	26.2	26.6	27.1	27.5	27.9	28.3	28.7	29.0	29.4	29.8	76
77	26.3	26.8	27.2	27.6	28.0	28.4	28.8	29.2	29.6	29.9	77
78	26.4	26.9	27.3	27.7	28.1	28.5	28.9	29.3	29.7	30.1	78
79	26.6	27.0	27.4	27.8	28.3	28.7	29.1	29.5	29.9	30.2	79
80	26.7	27.1	27.5	28.0	28.4	28.8	29.2	29.6	30.0	30.4	80
81	26.8	27.2	27.7	28.1	28.5	28.9	29.3	29.7	30.1	30.5	81
82	26.9	27.3	27.8	28.2	28.6	29.1	29.5	29.9	30.3	30.7	82
83	27.0	27.4	27.9	28.3	28.8	29.2	29.6	30.0	30.4	30.8	83
84	27.1	27.6	28.0	28.4	28.9	29.3	29.7	30.1	30.5	30.9	84
85	27.2	27.7	28.1	28.6	29.0	29.4	29.8	30.3	30.7	31.1	85
86	27.3	27.8	28.2	28.7	29.1	29.5	30.0	30.4	30.8	31.2	86
87	27.4	27.9	28.3	28.8	29.2	29.7	30.1	30.5	30.9	31.3	87
88	27.5	28.0	28.4	28.9	29.3	29.8	30.2	30.6	31.1	31.5	88
89	27.6	28.1	28.5	29.0	29.4	29.9	30.3	30.8	31.2	31.6	89
90	27.7	28.2	28.6	29.1	29.6	30.0	30.4	30.9	31.3	31.7	90
91	27.8	28.3	28.7	29.2	29.7	30.1	30.6	31.0	31.4	31.8	91
92	27.9	28.4	28.8	29.3	29.8	30.2	30.7	31.1	31.5	32.0	92
93	28.0	28.5	28.9	29.4	29.9	30.3	30.8	31.2	31.7	32.1	93
94	28.1	28.5	29.0	29.5	30.0	30.4	30.9	31.3	31.8	32.2	94
95	28.1	28.6	29.1	29.6	30.1	30.5	31.0	31.4	31.9	32.3	95
96	28.2	28.7	29.2	29.7	30.2	30.6	31.1	31.6	32.0	32.4	96
97	28.3	28.8	29.3	29.8	30.3	30.7	31.2	31.7	32.1	32.6	97
98	28.4	28.9	29.4	29.9	30.4	30.8	31.3	31.8	32.2	32.7	98
99	28.5	29.0	29.5	30.0	30.5	30.9	31.4	31.9	32.3	32.8	99
100	28.6	29.1	29.6	30.1	30.6	31.0	31.5	32.0	32.4	32.9	100
	40	41	42	43	44	45	46	47	48	49	

	50	51	52	53	54	55	56	57	58	59	
1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1
2	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2
3	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.9	2.9	3
4	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	4
5	4.5	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	5
6	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	6
7	6.1	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.3	7
8	6.9	6.9	6.9	7.0	7.0	7.0	7.0	7.0	7.0	7.0	8
9	7.6	7.6	7.7	7.7	7.7	7.7	7.8	7.8	7.8	7.8	9
10	8.3	8.4	8.4	8.4	8.4	8.5	8.5	8.5	8.5	8.6	10
11	9.0	9.0	9.1	9.1	9.1	9.2	9.2	9.2	9.2	9.3	11
12	9.7	9.7	9.8	9.8	9.8	9.9	9.9	9.9	9.9	10.0	12
13	10.3	10.4	10.4	10.4	10.5	10.5	10.6	10.6	10.6	10.7	13
14	10.9	11.0	11.0	11.1	11.1	11.2	11.2	11.2	11.3	11.3	14
15	11.5	11.6	11.6	11.7	11.7	11.8	11.8	11.9	11.9	12.0	15
16	12.1	12.2	12.2	12.3	12.3	12.4	12.4	12.5	12.5	12.6	16
17	12.7	12.8	12.8	12.9	12.9	13.0	13.0	13.1	13.1	13.2	17
18	13.2	13.3	13.4	13.4	13.5	13.6	13.6	13.7	13.7	13.8	18
19	13.8	13.8	13.9	14.0	14.1	14.1	14.2	14.2	14.3	14.4	19
20	14.3	14.4	14.4	14.5	14.6	14.7	14.7	14.8	14.9	14.9	20
21	14.8	14.9	15.0	15.0	15.1	15.2	15.3	15.3	15.4	15.5	21
22	15.3	15.4	15.5	15.5	15.6	15.7	15.8	15.9	16.0	16.0	22
23	15.8	15.9	15.9	16.0	16.1	16.2	16.3	16.4	16.5	16.5	23
24	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	17.0	17.1	24
25	16.7	16.8	16.9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	25
26	17.1	17.2	17.3	17.4	17.6	17.7	17.8	17.9	18.0	18.0	26
27	17.5	17.7	17.8	17.9	18.0	18.1	18.2	18.3	18.4	18.5	27
28	17.9	18.1	18.2	18.3	18.4	18.6	18.7	18.8	18.9	19.0	28
29	18.4	18.5	18.6	18.7	18.9	19.0	19.1	19.2	19.3	19.4	29
30	18.8	18.9	19.0	19.2	19.3	19.4	19.5	19.7	19.8	19.9	30
31	19.1	19.3	19.4	19.6	19.7	19.8	20.0	20.1	20.2	20.3	31
32	19.5	19.7	19.8	20.0	20.1	20.2	20.4	20.5	20.6	20.7	32
33	19.9	20.0	20.2	20.3	20.5	20.6	20.8	20.9	21.0	21.2	33
34	20.2	20.4	20.6	20.7	20.9	21.0	21.2	21.3	21.4	21.6	34
35	20.6	20.8	20.9	21.1	21.2	21.4	21.5	21.7	21.8	22.0	35
36	20.9	21.1	21.3	21.4	21.6	21.8	21.9	22.1	22.2	22.4	36
37	21.3	21.4	21.6	21.8	22.0	22.1	22.3	22.4	22.6	22.7	37
38	21.6	21.8	22.0	22.1	22.3	22.5	22.6	22.8	23.0	23.1	38
39	21.9	22.1	22.3	22.5	22.6	22.8	23.0	23.2	23.3	23.5	39
40	22.2	22.4	22.6	22.8	23.0	23.2	23.3	23.5	23.7	23.8	40
41	22.5	22.7	22.9	23.1	23.3	23.5	23.7	23.8	24.0	24.2	41
42	22.8	23.0	23.2	23.4	23.6	23.8	24.0	24.2	24.4	24.5	42
43	23.1	23.3	23.5	23.7	23.9	24.1	24.3	24.5	24.7	24.9	43
44	23.4	23.6	23.8	24.0	24.2	24.4	24.6	24.8	25.0	25.2	44
45	23.7	23.9	24.1	24.3	24.5	24.8	25.0	25.1	25.3	25.5	45
46	24.0	24.2	24.4	24.6	24.8	25.0	25.3	25.5	25.7	25.8	46
47	24.2	24.5	24.7	24.9	25.1	25.3	25.6	25.8	26.0	26.2	47
48	24.5	24.7	25.0	25.2	25.4	25.6	25.8	26.1	26.3	26.5	48
49	24.7	25.0	25.2	25.5	25.7	25.9	26.1	26.3	26.6	26.8	49
50	25.0	25.2	25.5	25.7	26.0	26.2	26.4	26.6	26.9	27.1	50
	50	51	52	53	54	55	56	57	58	59	

	50	51	52	53	54	55	56	57	58	59	
51	25.2	25.5	25.7	26.0	26.2	26.5	26.7	26.9	27.1	27.4	51
52	25.5	25.7	26.0	26.2	26.5	26.7	27.0	27.2	27.4	27.6	52
53	25.7	26.0	26.2	26.5	26.7	27.0	27.2	27.5	27.7	27.9	53
54	26.0	26.2	26.5	26.7	27.0	27.2	27.5	27.7	28.0	28.2	54
55	26.2	26.5	26.7	27.0	27.2	27.5	27.7	28.0	28.2	28.5	55
56	26.4	26.7	27.0	27.2	27.5	27.7	28.0	28.2	28.5	28.7	56
57	26.6	26.9	27.2	27.5	27.7	28.0	28.2	28.5	28.7	29.0	57
58	26.9	27.1	27.4	27.7	28.0	28.2	28.5	28.7	29.0	29.2	58
59	27.1	27.4	27.6	27.9	28.2	28.5	28.7	29.0	29.2	29.5	59
60	27.3	27.6	27.9	28.1	28.4	28.7	29.0	29.2	29.5	29.7	60
61	27.5	27.8	28.1	28.4	28.6	28.9	29.2	29.5	29.7	30.0	61
62	27.7	28.0	28.3	28.6	28.9	29.1	29.4	29.7	30.0	30.2	62
63	27.9	28.2	28.5	28.8	29.1	29.4	29.6	29.9	30.2	30.5	63
64	28.1	28.4	28.7	29.0	29.3	29.6	29.9	30.1	30.4	30.7	64
65	28.3	28.6	28.9	29.2	29.5	29.8	30.1	30.4	30.7	30.9	65
66	28.4	28.8	29.1	29.4	29.7	30.0	30.3	30.6	30.9	31.2	66
67	28.6	29.0	29.3	29.6	29.9	30.2	30.5	30.8	31.1	31.4	67
68	28.8	29.1	29.5	29.8	30.1	30.4	30.7	31.0	31.3	31.6	68
69	29.0	29.3	29.7	30.0	30.3	30.6	30.9	31.2	31.5	31.8	69
70	29.2	29.5	29.8	30.2	30.5	30.8	31.1	31.4	31.7	32.0	70
71	29.3	29.7	30.0	30.3	30.7	31.0	31.3	31.6	31.9	32.2	71
72	29.5	29.9	30.2	30.5	30.9	31.2	31.5	31.8	32.1	32.4	72
73	29.7	30.0	30.4	30.7	31.0	31.4	31.7	32.0	32.3	32.6	73
74	29.8	30.2	30.5	30.9	31.2	31.6	31.9	32.2	32.5	32.8	74
75	30.0	30.4	30.7	31.1	31.4	31.7	32.1	32.4	32.7	33.0	75
76	30.2	30.5	30.9	31.2	31.6	31.9	32.2	32.6	32.9	33.2	76
77	30.3	30.7	31.0	31.4	31.7	32.1	32.4	32.8	33.1	33.4	77
78	30.5	30.8	31.2	31.6	31.9	32.3	32.6	32.9	33.3	33.6	78
79	30.6	31.0	31.4	31.7	32.1	32.4	32.8	33.1	33.4	33.8	79
80	30.8	31.1	31.5	31.9	32.2	32.6	32.9	33.3	33.6	34.0	80
81	30.9	31.3	31.7	32.0	32.4	32.8	33.1	33.5	33.8	34.1	81
82	31.1	31.4	31.8	32.2	32.6	32.9	33.3	33.6	34.0	34.3	82
83	31.2	31.6	32.0	32.3	32.7	33.1	33.4	33.8	34.1	34.5	83
84	31.3	31.7	32.1	32.5	32.9	33.2	33.6	34.0	34.3	34.7	84
85	31.5	31.9	32.3	32.6	33.0	33.4	33.8	34.1	34.5	34.8	85
86	31.6	32.0	32.4	32.8	33.2	33.5	33.9	34.3	34.6	35.0	86
87	31.8	32.2	32.5	32.9	33.3	33.7	34.1	34.4	34.8	35.2	87
88	31.9	32.3	32.7	33.1	33.5	33.8	34.2	34.6	35.0	35.3	88
89	32.0	32.4	32.8	33.2	33.6	34.0	34.4	34.7	35.1	35.5	89
90	32.1	32.6	33.0	33.4	33.8	34.1	34.5	34.9	35.3	35.6	90
91	32.3	32.7	33.1	33.5	33.9	34.3	34.7	35.0	35.4	35.8	91
92	32.4	32.8	33.2	33.6	34.0	34.4	34.8	35.2	35.6	35.9	92
93	32.5	32.9	33.4	33.8	34.2	34.6	35.0	35.3	35.7	36.1	93
94	32.6	33.1	33.5	33.9	34.3	34.7	35.1	35.5	35.9	36.2	94
95	32.8	33.2	33.6	34.0	34.4	34.8	35.2	35.6	36.0	36.4	95
96	32.9	33.3	33.7	34.1	34.6	35.0	35.4	35.8	36.2	36.5	96
97	33.0	33.4	33.9	34.3	34.7	35.1	35.5	35.9	36.3	36.7	97
98	33.1	33.5	34.0	34.4	34.8	35.2	35.6	36.0	36.4	36.8	98
99	33.2	33.7	34.1	34.5	34.9	35.4	35.8	36.2	36.6	37.0	99
100	33.3	33.8	34.2	34.6	35.1	35.5	35.9	36.3	36.7	37.1	100
	50	51	52	53	54	55	56	57	58	59	

	60	61	62	63	64	65	66	67	68	69	
1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1
2	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2
3	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3
4	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	4
5	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.7	4.7	4.7	5
6	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	6
7	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.4	7
8	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.2	7.2	8
9	7.8	7.8	7.9	7.9	7.9	7.9	7.9	7.9	7.9	8.0	9
10	8.6	8.6	8.6	8.6	8.6	8.7	8.7	8.7	8.7	8.7	10
11	9.3	9.3	9.3	9.4	9.4	9.4	9.4	9.4	9.5	9.5	11
12	10.0	10.0	10.1	10.1	10.1	10.1	10.2	10.2	10.2	10.2	12
13	10.7	10.7	10.7	10.8	10.8	10.8	10.9	10.9	10.9	10.9	13
14	11.4	11.4	11.4	11.5	11.5	11.5	11.6	11.6	11.6	11.6	14
15	12.0	12.0	12.1	12.1	12.2	12.2	12.2	12.3	12.3	12.3	15
16	12.6	12.7	12.7	12.8	12.8	12.8	12.9	12.9	13.0	13.0	16
17	13.2	13.3	13.3	13.4	13.4	13.5	13.5	13.6	13.6	13.6	17
18	13.8	13.9	14.0	14.0	14.0	14.1	14.1	14.2	14.2	14.3	18
19	14.4	14.5	14.5	14.6	14.7	14.7	14.8	14.8	14.9	14.9	19
20	15.0	15.1	15.1	15.2	15.2	15.3	15.3	15.4	15.5	15.5	20
21	15.6	15.6	15.7	15.8	15.8	15.9	15.9	16.0	16.0	16.1	21
22	16.1	16.2	16.2	16.3	16.4	16.4	16.5	16.6	16.6	16.7	22
23	16.6	16.7	16.8	16.8	16.9	17.0	17.1	17.1	17.2	17.2	23
24	17.1	17.2	17.3	17.4	17.5	17.5	17.6	17.7	17.7	17.8	24
25	17.6	17.7	17.8	17.9	18.0	18.1	18.1	18.2	18.3	18.4	25
26	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.7	18.8	18.9	26
27	18.6	18.7	18.8	18.9	19.0	19.1	19.2	19.2	19.3	19.4	27
28	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.7	19.8	19.9	28
29	19.6	19.7	19.8	19.9	20.0	20.1	20.1	20.2	20.3	20.4	29
30	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	30
31	20.4	20.6	20.7	20.8	20.9	21.0	21.1	21.2	21.3	21.4	31
32	20.9	21.0	21.1	21.2	21.3	21.4	21.6	21.7	21.8	21.9	32
33	21.3	21.4	21.5	21.7	21.8	21.9	22.0	22.1	22.2	22.3	33
34	21.7	21.8	22.0	22.1	22.2	22.3	22.4	22.6	22.7	22.8	34
35	22.1	22.2	22.4	22.5	22.6	22.8	22.9	23.0	23.1	23.2	35
36	22.5	22.6	22.8	22.9	23.0	23.2	23.3	23.4	23.5	23.7	36
37	22.9	23.0	23.2	23.3	23.4	23.6	23.7	23.8	24.0	24.1	37
38	23.3	23.4	23.6	23.7	23.8	24.0	24.1	24.2	24.4	24.5	38
39	23.6	23.8	23.9	24.1	24.2	24.4	24.5	24.7	24.8	24.9	39
40	24.0	24.2	24.3	24.5	24.6	24.8	24.9	25.0	25.2	25.3	40
41	24.4	24.5	24.7	24.8	25.0	25.1	25.3	25.4	25.6	25.7	41
42	24.7	24.9	25.0	25.2	25.4	25.5	25.7	25.8	26.0	26.1	42
43	25.0	25.2	25.4	25.6	25.7	25.9	26.0	26.2	26.3	26.5	43
44	25.4	25.6	25.7	25.9	26.1	26.2	26.4	26.6	26.7	26.9	44
45	25.7	25.9	26.1	26.2	26.4	26.6	26.8	26.9	27.1	27.2	45
46	26.0	26.2	26.4	26.6	26.8	26.9	27.1	27.3	27.4	27.6	46
47	26.4	26.5	26.7	26.9	27.1	27.3	27.5	27.6	27.8	28.0	47
48	26.7	26.9	27.1	27.2	27.4	27.6	27.8	28.0	28.1	28.3	48
49	27.0	27.2	27.4	27.6	27.8	27.9	28.1	28.3	28.5	28.7	49
50	27.3	27.5	27.7	27.9	28.1	28.3	28.4	28.6	28.8	29.0	50
	60	61	62	63	64	65	66	67	68	69	

	60	61	62	63	64	65	66	67	68	69	
51	27.6	27.8	28.0	28.2	28.4	28.6	28.8	29.0	29.1	29.3	51
52	27.9	28.1	28.3	28.5	28.7	28.9	29.1	29.3	29.5	29.7	52
53	28.1	28.4	28.6	28.8	29.0	29.2	29.4	29.6	29.8	30.0	53
54	28.4	28.6	28.9	29.1	29.3	29.5	29.7	29.9	30.1	30.3	54
55	28.7	28.9	29.1	29.4	29.6	29.8	30.0	30.2	30.4	30.6	55
56	29.0	29.2	29.4	29.6	29.9	30.1	30.3	30.5	30.7	30.9	56
57	29.2	29.5	29.7	29.9	30.1	30.4	30.6	30.8	31.0	31.2	57
58	29.5	29.7	30.0	30.2	30.4	30.7	30.9	31.1	31.3	31.5	58
59	29.7	30.0	30.2	30.5	30.7	30.9	31.2	31.4	31.6	31.8	59
60	30.0	30.2	30.5	30.7	31.0	31.2	31.4	31.7	31.9	32.1	60
61	30.2	30.5	30.7	31.0	31.2	31.5	31.7	31.9	32.2	32.4	61
62	30.5	30.7	31.0	31.2	31.5	31.7	32.0	32.2	32.4	32.7	62
63	30.7	31.0	31.2	31.5	31.7	32.0	32.2	32.5	32.7	32.9	63
64	31.0	31.2	31.5	31.7	32.0	32.2	32.5	32.7	33.0	33.2	64
65	31.2	31.5	31.7	32.0	32.2	32.5	32.7	33.0	33.2	33.5	65
66	31.4	31.7	32.0	32.2	32.5	32.7	33.0	33.2	33.5	33.7	66
67	31.7	31.9	32.2	32.5	32.7	33.0	33.2	33.5	33.7	34.0	67
68	31.9	32.2	32.4	32.7	33.0	33.2	33.5	33.7	34.0	34.2	68
69	32.1	32.4	32.7	32.9	33.2	33.5	33.7	34.0	34.2	34.5	69
70	32.3	32.6	32.9	33.2	33.4	33.7	34.0	34.2	34.5	34.7	70
71	32.5	32.8	33.1	33.4	33.7	33.9	34.2	34.5	34.7	35.0	71
72	32.7	33.0	33.3	33.6	33.9	34.2	34.4	34.7	35.0	35.2	72
73	32.9	33.2	33.5	33.8	34.1	34.4	34.7	34.9	35.2	35.5	73
74	33.1	33.4	33.7	34.0	34.3	34.6	34.9	35.2	35.4	35.7	74
75	33.3	33.6	33.9	34.2	34.5	34.8	35.1	35.4	35.7	35.9	75
76	33.5	33.8	34.1	34.4	34.7	35.0	35.3	35.6	35.9	36.2	76
77	33.7	34.0	34.3	34.6	35.0	35.2	35.5	35.8	36.1	36.4	77
78	33.9	34.2	34.5	34.9	35.2	35.5	35.8	36.0	36.3	36.6	78
79	34.1	34.4	34.7	35.0	35.4	35.7	36.0	36.3	36.5	36.8	79
80	34.3	34.6	34.9	35.2	35.6	35.9	36.2	36.5	36.8	37.0	80
81	34.5	34.8	35.1	35.4	35.8	36.1	36.4	36.7	37.0	37.3	81
82	34.6	35.0	35.3	35.6	35.9	36.3	36.6	36.9	37.2	37.5	82
83	34.8	35.2	35.5	35.8	36.1	36.5	36.8	37.1	37.4	37.7	83
84	35.0	35.3	35.7	36.0	36.3	36.6	37.0	37.3	37.6	37.9	84
85	35.2	35.5	35.9	36.2	36.5	36.8	37.2	37.5	37.8	38.1	85
86	35.3	35.7	36.0	36.4	36.7	37.0	37.3	37.7	38.0	38.3	86
87	35.5	35.9	36.2	36.5	36.9	37.2	37.5	37.9	38.2	38.5	87
88	35.7	36.0	36.4	36.7	37.1	37.4	37.7	38.0	38.4	38.7	88
89	35.8	36.2	36.5	36.9	37.2	37.6	37.9	38.2	38.5	38.9	89
90	36.0	36.4	36.7	37.1	37.4	37.7	38.1	38.4	38.7	39.1	90
91	36.2	36.5	36.9	37.2	37.6	37.9	38.3	38.6	38.9	39.2	91
92	36.3	36.7	37.0	37.4	37.7	38.1	38.4	38.8	39.1	39.4	92
93	36.5	36.8	37.2	37.6	37.9	38.3	38.6	38.9	39.3	39.6	93
94	36.6	37.0	37.4	37.7	38.1	38.4	38.8	39.1	39.5	39.8	94
95	36.8	37.1	37.5	37.9	38.2	38.6	38.9	39.3	39.6	40.0	95
96	36.9	37.3	37.7	38.0	38.4	38.8	39.1	39.5	39.8	40.1	96
97	37.1	37.4	37.8	38.2	38.6	38.9	39.3	39.6	40.0	40.3	97
98	37.2	37.6	38.0	38.3	38.7	39.1	39.4	39.8	40.1	40.5	98
99	37.4	37.7	38.1	38.5	38.9	39.2	39.6	40.0	40.3	40.7	99
100	37.5	37.9	38.3	38.7	39.0	39.4	39.8	40.1	40.5	40.8	100
	60	61	62	63	64	65	66	67	68	69	

	70	71	72	73	74	75	76	77	78	79	
1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1
2	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2
3	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3
4	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	4
5	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	5
6	5.5	5.5	5.5	5.5	5.6	5.6	5.6	5.6	5.6	5.6	6
7	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	7
8	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.3	7.3	8
9	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.1	8.1	8.1	9
10	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.9	8.9	8.9	10
11	9.5	9.5	9.5	9.6	9.6	9.6	9.6	9.6	9.6	9.7	11
12	10.2	10.3	10.3	10.3	10.3	10.3	10.4	10.4	10.4	10.4	12
13	11.0	11.0	11.0	11.0	11.1	11.1	11.1	11.1	11.1	11.2	13
14	11.7	11.7	11.7	11.7	11.8	11.8	11.8	11.8	11.9	11.9	14
15	12.4	12.4	12.4	12.4	12.5	12.5	12.5	12.6	12.6	12.6	15
16	13.0	13.1	13.1	13.1	13.2	13.2	13.2	13.2	13.3	13.3	16
17	13.7	13.7	13.8	13.8	13.8	13.9	13.9	13.9	14.0	14.0	17
18	14.3	14.4	14.4	14.4	14.5	14.5	14.6	14.6	14.6	14.7	18
19	14.9	15.0	15.0	15.1	15.1	15.2	15.2	15.2	15.3	15.3	19
20	15.6	15.6	15.7	15.7	15.7	15.8	15.8	15.9	15.9	16.0	20
21	16.2	16.2	16.3	16.3	16.4	16.4	16.5	16.5	16.5	16.6	21
22	16.7	16.8	16.9	16.9	17.0	17.0	17.1	17.1	17.2	17.2	22
23	17.3	17.4	17.4	17.5	17.5	17.6	17.7	17.7	17.8	17.8	23
24	17.9	17.9	18.0	18.1	18.1	18.2	18.2	18.3	18.4	18.4	24
25	18.4	18.5	18.6	18.6	18.7	18.8	18.8	18.9	18.9	19.0	25
26	19.0	19.0	19.1	19.2	19.2	19.3	19.4	19.4	19.5	19.6	26
27	19.5	19.6	19.6	19.7	19.8	19.9	19.9	20.0	20.1	20.1	27
28	20.0	20.1	20.2	20.2	20.3	20.4	20.5	20.5	20.6	20.7	28
29	20.5	20.6	20.7	20.8	20.8	20.9	21.0	21.1	21.1	21.2	29
30	21.0	21.1	21.2	21.3	21.3	21.4	21.5	21.6	21.7	21.7	30
31	21.5	21.6	21.7	21.8	21.8	21.9	22.0	22.1	22.2	22.3	31
32	22.0	22.1	22.2	22.2	22.3	22.4	22.5	22.6	22.7	22.8	32
33	22.4	22.5	22.6	22.7	22.8	22.9	23.0	23.1	23.2	23.3	33
34	22.9	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	34
35	23.3	23.4	23.6	23.7	23.8	23.9	24.0	24.1	24.2	24.3	35
36	23.8	23.9	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	36
37	24.2	24.3	24.4	24.6	24.7	24.8	24.9	25.0	25.1	25.2	37
38	24.6	24.8	24.9	25.0	25.1	25.2	25.3	25.4	25.6	25.7	38
39	25.0	25.2	25.3	25.4	25.5	25.7	25.8	25.9	26.0	26.1	39
40	25.5	25.6	25.7	25.8	26.0	26.1	26.2	26.3	26.4	26.6	40
41	25.9	26.0	26.1	26.3	26.4	26.5	26.6	26.8	26.9	27.0	41
42	26.2	26.4	26.5	26.7	26.8	26.9	27.1	27.2	27.3	27.4	42
43	26.6	26.8	26.9	27.1	27.2	27.3	27.5	27.6	27.7	27.8	43
44	27.0	27.2	27.3	27.5	27.6	27.7	27.9	28.0	28.1	28.3	44
45	27.4	27.5	27.7	27.8	28.0	28.1	28.3	28.4	28.5	28.7	45
46	27.8	27.9	28.1	28.2	28.4	28.5	28.7	28.8	28.9	29.1	46
47	28.1	28.3	28.4	28.6	28.7	28.9	29.0	29.2	29.3	29.5	47
48	28.5	28.6	28.8	29.0	29.1	29.3	29.4	29.6	29.7	29.9	48
49	28.8	29.0	29.2	29.3	29.5	29.6	29.8	29.9	30.1	30.2	49
50	29.2	29.3	29.5	29.7	29.8	30.0	30.2	30.3	30.5	30.6	50
	70	71	72	73	74	75	76	77	78	79	

	70	71	72	73	74	75	76	77	78	79	
51	29.5	29.7	29.9	30.0	30.2	30.4	30.5	30.7	30.8	31.0	51
52	29.8	30.0	30.2	30.4	30.5	30.7	30.9	31.0	31.2	31.4	52
53	30.2	30.3	30.5	30.7	30.9	31.1	31.2	31.4	31.6	31.7	53
54	30.5	30.7	30.9	31.0	31.2	31.4	31.6	31.7	31 9	32.1	54
55	30.8	31.0	31.2	31.4	31.6	31.7	31.9	32.1	32.3	32.4	55
56	31.1	31.3	31.5	31.7	31.9	32.1	32.2	32.4	32.6	32.8	56
57	31.4	31.6	31.8	32.0	32.2	32.4	32.6	32.8	32.9	33.1	57
58	31.7	31.9	32.1	32.3	32.5	32.7	32.9	33.1	33.3	33.4	58
59	32.0	32.2	32.4	32.6	32.8	33.0	33.2	33.4	33.6	33.8	59
60	32.3	32.5	32.7	32.9	33 1	33.3	33.5	33.7	33.9	34.1	60
61	32.6	32.8	33.0	33.2	33.4	33.6	33.8	34.0	34.2	34.4	61
62	32.9	33.1	33.3	33.5	33.7	33.9	34.1	34.3	34.5	34.7	62
63	33.2	33.4	33.6	33.8	34.0	34.2	34.4	34.6	34.9	35.0	63
64	33.4	33.7	33.9	34.1	34.3	34.5	34.7	35.0	35.2	35.4	64
65	33.7	33.9	34.2	34.4	34.6	34.8	35.0	35.2	35.5	35.7	65
66	34.0	34.2	34.4	34.7	34.9	35.1	35.3	35.5	35.8	36.0	66
67	34.2	34.5	34.7	34.9	35.2	35.4	35.6	35.8	36.0	36.3	67
68	34.5	34.7	35.0	35.2	35.4	35.7	35.9	36.1	36.3	36.5	68
69	34.7	35.0	35.2	35.5	35.7	35.9	36.2	36.4	36.6	36.8	69
70	35.0	35.2	35.5	35.7	36.0	36.2	36.4	36.7	36.9	37.1	70
71	35.2	35.5	35.7	36.0	36.2	36.5	36.7	36.9	37.2	37.4	71
72	35.5	35.7	36.0	36.2	36.5	36.7	37.0	37.2	37.4	37.7	72
73	35.7	36.0	36.2	36.5	36.7	37.0	37.2	37.5	37.7	37.9	73
74	36.0	36.2	36.5	36.7	37.0	37.2	37.5	37.7	38.0	38.2	74
75	36.2	36.5	36.7	37.0	37.2	37.5	37.7	38.0	38.2	38.5	75
76	36.4	36.7	37.0	37.2	37.5	37.7	38.0	38.2	38.5	38.7	76
77	36.7	36.9	37.2	37.5	37.7	38.0	38.2	38.5	38.7	39.0	77
78	36.9	37.2	37.4	37.7	38.0	38.2	38.5	38.7	39.0	39.2	78
79	37.1	37.4	37.7	37.9	38.2	38.5	38.7	39.0	39.2	39.5	79
80	37.3	37.6	37.9	38.2	38.4	38.7	39.0	39.2	39.5	39.7	80
81	37.5	37.8	38.1	38.4	38.7	38.9	39.2	39.5	39.7	40.0	81
82	37.8	38.1	38.3	38.6	38.9	39.2	39.4	39.7	40.0	40.2	82
83	38.0	38.3	38.6	38.8	39.1	39.4	39.7	39.9	40.2	40.5	83
84	38.2	38.5	38.8	39.1	39.3	39.6	39.9	40.2	40.4	40.7	84
85	38.4	38.7	39.0	39.3	39.6	39.8	40.1	40.4	40.7	40.9	85
86	38.6	38.9	39.2	39.5	39.8	40.1	40.3	40.6	40.9	41.2	86
87	38.8	39.1	39.4	39.7	40.0	40.3	40.6	40.8	41.1	41.4	87
88	39.0	39.3	39.6	39.9	40.2	40.5	40.8	41.1	41.3	41.6	88
89	39.2	39.5	39.8	40.1	40.4	40.7	41.0	41.3	41.6	41.9	89
90	39.4	39.7	40.0	40.3	40.6	40.9	41.2	41.5	41.8	42.1	90
91	39.6	39.9	40.2	40.5	40.8	41.1	41.4	41.7	42.0	42.3	91
92	39.8	40.1	40.4	40.7	41.0	41.3	41.6	41.9	42.2	42.5	92
93	39.9	40.3	40.6	40.9	41.2	41.5	41.8	42.1	42.4	42.7	93
94	40.1	40.4	40.8	41.1	41.4	41.7	42.0	42.3	42.6	42.9	94
95	40.3	40.6	41.0	41.3	41.6	41.9	42.2	42.5	42.8	43.1	95
96	40.5	40.8	41.1	41.5	41.8	42.1	42.4	42.7	43.0	43.3	96
97	40.7	41.0	41.3	41.7	42.0	42.3	42.6	42.9	43.2	43.5	97
98	40.8	41.2	41.5	41.8	42.2	42.5	42.8	43.1	43.4	43.7	98
99	41.0	41.3	41.7	42.0	42.3	42.7	43.0	43.3	43.6	43.9	99
100	41.2	41.5	41.9	42.2	42.5	42.9	43.2	43.5	43.8	44.1	100
	70	71	72	73	74	75	76	77	78	79	

	80	81	82	83	84	85	86	87	88	89	
1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1
2	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2
3	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3
4	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	4
5	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	5
6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	6
7	6.4	6.4	6.4	6.5	6.5	6.5	6.5	6.5	6.5	6.5	7
8	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	8
9	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.2	8.2	8.2	9
10	8.9	8.9	8.9	8.9	8.9	8.9	9.0	9.0	9.0	9.0	10
11	9.7	9.7	9.7	9.7	9.7	9.7	9.8	9.8	9.8	9.8	11
12	10.4	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.6	10.6	12
13	11.2	11.2	11.2	11.2	11.3	11.3	11.3	11.3	11.3	11.3	13
14	11.9	11.9	12.0	12.0	12.0	12.0	12.0	12.1	12.1	12.1	14
15	12.6	12.7	12.7	12.7	12.7	12.8	12.8	12.8	12.8	12.8	15
16	13.3	13.4	13.4	13.4	13.4	13.5	13.5	13.5	13.5	13.6	16
17	14.0	14.1	14.1	14.1	14.1	14.2	14.2	14.2	14.2	14.3	17
18	14.7	14.7	14.8	14.8	14.8	14.9	14.9	14.9	14.9	15.0	18
19	15.4	15.4	15.4	15.5	15.5	15.5	15.6	15.6	15.6	15.7	19
20	16.0	16.0	16.1	16.1	16.2	16.2	16.2	16.3	16.3	16.3	20
21	16.6	16.7	16.7	16.8	16.8	16.8	16.9	16.9	17.0	17.0	21
22	17.3	17.3	17.3	17.4	17.4	17.5	17.5	17.6	17.6	17.6	22
23	17.9	17.9	18.0	18.0	18.1	18.1	18.1	18.2	18.2	18.3	23
24	18.5	18.5	18.6	18.6	18.7	18.7	18.8	18.8	18.9	18.9	24
25	19.0	19.1	19.2	19.2	19.3	19.3	19.4	19.4	19.5	19.5	25
26	19.6	19.7	19.7	19.8	19.9	19.9	20.0	20.0	20.1	20.1	26
27	20.2	20.2	20.3	20.4	20.4	20.5	20.5	20.6	20.7	20.7	27
28	20.7	20.8	20.9	20.9	21.0	21.1	21.1	21.2	21.2	21.3	28
29	21.3	21.4	21.4	21.5	21.6	21.6	21.7	21.8	21.8	21.9	29
30	21.8	21.9	22.0	22.0	22.1	22.2	22.2	22.3	22.4	22.4	30
31	22.3	22.4	22.5	22.6	22.6	22.7	22.8	22.9	22.9	23.0	31
32	22.9	22.9	23.0	23.1	23.2	23.2	23.3	23.4	23.5	23.5	32
33	23.4	23.4	23.5	23.6	23.7	23.8	23.8	23.9	24.0	24.1	33
34	23.9	23.9	24.0	24.1	24.2	24.3	24.4	24.4	24.5	24.6	34
35	24.3	24.4	24.5	24.6	24.7	24.8	24.9	25.0	25.0	25.1	35
36	24.8	24.9	25.0	25.1	25.2	25.3	25.4	25.5	25.5	25.6	36
37	25.3	25.4	25.5	25.6	25.7	25.8	25.9	26.0	26.0	26.1	37
38	25.8	25.9	26.0	26.1	26.2	26.3	26.4	26.4	26.5	26.6	38
39	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	27.0	27.1	39
40	26.7	26.8	26.9	27.0	27.1	27.2	27.3	27.4	27.5	27.6	40
41	27.1	27.2	27.3	27.4	27.6	27.7	27.8	27.9	28.0	28.1	41
42	27.5	27.7	27.8	27.9	28.0	28.1	28.2	28.3	28.4	28.5	42
43	28.0	28.1	28.2	28.3	28.4	28.6	28.7	28.8	28.9	29.0	43
44	28.4	28.5	28.6	28.8	28.9	29.0	29.1	29.2	29.3	29.4	44
45	28.8	28.9	29.1	29.2	29.3	29.4	29.5	29.7	29.8	29.9	45
46	29.2	29.3	29.5	29.6	29.7	29.8	30.0	30.1	30.2	30.3	46
47	29.6	29.7	29.9	30.0	30.1	30.3	30.4	30.5	30.6	30.8	47
48	30.0	30.1	30.3	30.4	30.5	30.7	30.8	30.9	31.1	31.2	48
49	30.4	30.5	30.7	30.8	30.9	31.1	31.2	31.3	31.5	31.6	49
50	30.8	30.9	31.1	31.2	31.3	31.5	31.6	31.8	31.9	32.0	50
	80	81	82	83	84	85	86	87	88	89	

	80	81	82	83	84	85	86	87	88	89	
51	31.1	31.3	31.4	31.6	31.7	31.9	32.0	32.2	32.3	32.4	51
52	31.5	31.7	31.8	32.0	32.1	32.3	32.4	32.5	32.7	32.8	52
53	31.9	32.0	32.2	32.3	32.5	32.6	32.8	32.9	33.1	33.2	53
54	32.2	32.4	32.6	32.7	32.9	33.0	33.2	33.3	33.5	33.6	54
55	32.6	32.8	32.9	33.1	33.2	33.4	33.5	33.7	33.8	34.0	55
56	32.9	33.1	33.3	33.4	33.6	33.8	33.9	34.1	34.2	34.4	56
57	33.3	33.5	33.6	33.8	34.0	34.1	34.3	34.4	34.6	34.7	57
58	33.6	33.8	34.0	34.1	34.3	34.5	34.6	34.8	35.0	35.1	58
59	34.0	34.1	34.3	34.5	34.7	34.8	35.0	35.2	35.3	35.5	59
60	34.3	34.5	34.6	34.8	35.0	35.2	35.3	35.5	35.7	35.8	60
61	34.6	34.8	35.0	35.2	35.3	35.5	35.7	35.9	36.0	36.2	61
62	34.9	35.1	35.3	35.5	35.7	35.9	36.0	36.2	36.4	36.5	62
63	35.2	35.4	35.6	35.8	36.0	36.2	36.4	36.5	36.7	36.9	63
64	35.6	35.8	35.9	36.1	36.3	36.5	36.7	36.9	37.1	37.2	64
65	35.9	36.1	36.3	36.5	36.6	36.8	37.0	37.2	37.4	37.6	65
66	36.2	36.4	36.6	36.8	37.0	37.2	37.3	37.5	37.7	37.9	66
67	36.5	36.7	36.9	37.1	37.3	37.5	37.7	37.9	38.0	38.2	67
68	36.8	37.0	37.2	37.4	37.6	37.8	38.0	38.2	38.4	38.5	68
69	37.0	37.3	37.5	37.7	37.9	38.1	38.3	38.5	38.7	38.9	69
70	37.3	37.5	37.8	38.0	38.2	38.4	38.6	38.8	39.0	39.2	70
71	37.6	37.8	38.1	38.3	38.5	38.7	38.9	39.1	39.3	39.5	71
72	37.9	38.1	38.3	38.6	38.8	39.0	39.2	39.4	39.6	39.8	72
73	38.2	38.4	38.6	38.8	39.1	39.3	39.5	39.7	39.9	40.1	73
74	38.4	38.7	38.9	39.1	39.3	39.6	39.8	40.0	40.2	40.4	74
75	38.7	38.9	39.2	39.4	39.6	39.8	40.1	40.3	40.5	40.7	75
76	39.0	39.2	39.4	39.7	39.9	40.1	40.3	40.6	40.8	41.0	76
77	39.2	39.5	39.7	39.9	40.2	40.4	40.6	40.8	41.1	41.3	77
78	39.5	39.7	40.0	40.2	40.4	40.7	40.9	41.1	41.3	41.6	78
79	39.7	40.0	40.2	40.5	40.7	40.9	41.2	41.4	41.6	41.9	79
80	40.0	40.2	40.5	40.7	41.0	41.2	41.4	41.7	41.9	42.1	80
81	40.2	40.5	40.7	41.0	41.2	41.5	41.7	41.9	42.2	42.4	81
82	40.5	40.7	41.0	41.2	41.5	41.7	42.0	42.2	42.4	42.7	82
83	40.7	41.0	41.2	41.5	41.7	42.0	42.2	42.5	42.7	42.9	83
84	41.0	41.2	41.5	41.7	42.0	42.2	42.5	42.7	43.0	43.2	84
85	41.2	41.5	41.7	42.0	42.2	42.5	42.7	43.0	43.2	43.5	85
86	41.4	41.7	42.0	42.2	42.5	42.7	43.0	43.2	43.5	43.7	86
87	41.7	41.9	42.2	42.5	42.7	43.0	43.2	43.5	43.7	44.0	87
88	41.9	42.2	42.4	42.7	43.0	43.2	43.5	43.7	44.0	44.2	88
89	42.1	42.4	42.7	42.9	43.2	43.5	43.7	44.0	44.2	44.5	89
90	42.4	42.6	42.9	43.2	43.4	43.7	44.0	44.2	44.5	44.7	90
91	42.6	42.9	43.1	43.4	43.7	43.9	44.2	44.5	44.7	45.0	91
92	42.8	43.1	43.4	43.6	43.9	44.2	44.4	44.7	45.0	45.2	92
93	43.0	43.3	43.6	43.9	44.1	44.4	44.7	45.0	45.2	45.5	93
94	43.2	43.5	43.8	44.1	44.4	44.6	44.9	45.2	45.5	45.7	94
95	43.4	43.7	44.0	44.3	44.6	44.9	45.1	45.4	45.7	46.0	95
96	43.6	43.9	44.2	44.5	44.8	45.1	45.4	45.6	45.9	46.2	96
97	43.8	44.1	44.4	44.7	45.0	45.3	45.6	45.9	46.1	46.4	97
98	44.0	44.3	44.6	44.9	45.2	45.5	45.8	46.1	46.4	46.6	98
99	44.2	44.6	44.9	45.1	45.4	45.7	46.0	46.3	46.6	46.9	99
100	44.4	44.8	45.1	45.4	45.7	45.9	46.2	46.5	46.8	47.1	100
	80	81	82	83	84	85	86	87	88	89	

	90	91	92	93	94	95	96	97	98	99	
1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1
2	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2
3	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3
4	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	4
5	4.7	4.7	4.7	4.7	4.7	4.8	4.8	4.8	4.8	4.8	5
6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.7	5.7	5.7	6
7	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	7
8	7.3	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	8
9	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	9
10	9.0	9.0	9.0	9.0	9.0	9.0	9.1	9.1	9.1	9.1	10
11	9.8	9.8	9.8	9.8	9.8	9.9	9.9	9.9	9.9	9.9	11
12	10.6	10.6	10.6	10.6	10.6	10.7	10.7	10.7	10.7	10.7	12
13	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.5	11.5	11.5	13
14	12.1	12.1	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.3	14
15	12.9	12.9	12.9	12.9	12.9	13.0	13.0	13.0	13.0	13.0	15
16	13.6	13.6	13.6	13.7	13.7	13.7	13.7	13.7	13.8	13.8	16
17	14.3	14.3	14.3	14.4	14.4	14.4	14.4	14.5	14.5	14.5	17
18	15.0	15.0	15.1	15.1	15.1	15.1	15.2	15.2	15.2	15.2	18
19	15.7	15.7	15.7	15.8	15.8	15.8	15.9	15.9	15.9	15.9	19
20	16.4	16.4	16.4	16.5	16.5	16.5	16.6	16.6	16.6	16.6	20
21	17.0	17.1	17.1	17.1	17.2	17.2	17.2	17.3	17.3	17.3	21
22	17.7	17.7	17.8	17.8	17.8	17.9	17.9	17.9	18.0	18.0	22
23	18.3	18.4	18.4	18.4	18.5	18.5	18.6	18.6	18.6	18.7	23
24	18.9	19.0	19.0	19.1	19.1	19.2	19.2	19.2	19.3	19.3	24
25	19.6	19.6	19.7	19.7	19.7	19.8	19.8	19.9	19.9	20.0	25
26	20.2	20.2	20.3	20.3	20.4	20.4	20.5	20.5	20.5	20.6	26
27	20.8	20.8	20.9	20.9	21.0	21.0	21.1	21.1	21.2	21.2	27
28	21.4	21.4	21.5	21.5	21.6	21.6	21.7	21.7	21.8	21.8	28
29	21.9	22.0	22.0	22.1	22.2	22.2	22.3	22.3	22.4	22.4	29
30	22.5	22.6	22.6	22.7	22.7	22.8	22.9	22.9	23.0	23.0	30
31	23.1	23.1	23.2	23.2	23.3	23.4	23.4	23.5	23.6	23.6	31
32	23.6	23.7	23.7	23.8	23.9	23.9	24.0	24.1	24.1	24.2	32
33	24.1	24.2	24.3	24.4	24.4	24.5	24.6	24.6	24.7	24.8	33
34	24.7	24.8	24.8	24.9	25.0	25.0	25.1	25.2	25.2	25.3	34
35	25.2	25.3	25.4	25.4	25.5	25.6	25.6	25.7	25.8	25.9	35
36	25.7	25.8	25.9	26.0	26.0	26.1	26.2	26.3	26.3	26.4	36
37	26.2	26.3	26.4	26.5	26.5	26.6	26.7	26.8	26.9	26.9	37
38	26.7	26.8	26.9	27.0	27.1	27.1	27.2	27.3	27.4	27.5	38
39	27.2	27.3	27.4	27.5	27.6	27.6	27.7	27.8	27.9	28.0	39
40	27.7	27.8	27.9	28.0	28.1	28.1	28.2	28.3	28.4	28.5	40
41	28.2	28.3	28.4	28.5	28.5	28.6	28.7	28.8	28.9	29.0	41
42	28.6	28.7	28.8	28.9	29.0	29.1	29.2	29.3	29.4	29.5	42
43	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	30.0	43
44	29.6	29.7	29.8	29.9	30.0	30.1	30.2	30.3	30.4	30.5	44
45	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	45
46	30.4	30.6	30.7	30.8	30.9	31.0	31.1	31.2	31.3	31.4	46
47	30.9	31.0	31.1	31.2	31.3	31.4	31.6	31.7	31.8	31.9	47
48	31.3	31.4	31.5	31.7	31.8	31.9	32.0	32.1	32.2	32.3	48
49	31.7	31.8	32.0	32.1	32.2	32.3	32.4	32.6	32.7	32.8	49
50	32.1	32.3	32.4	32.5	32.6	32.8	32.9	33.0	33.1	33.2	50
	90	91	92	93	94	95	96	97	98	99	

	90	91	92	93	94	95	96	97	98	99	
51	32.6	32.7	32.8	32.9	33.1	33.2	33.3	33.4	33.5	33.7	51
52	33.0	33.1	33.2	33.4	33.5	33.6	33.7	33.9	34.0	34.1	52
53	33.4	33.5	33.6	33.8	33.9	34.0	34.1	34.3	34.4	34.5	53
54	33.8	33.9	34.0	34.2	34.3	34.4	34.6	34.7	34.8	34.9	54
55	34.1	34.3	34.4	34.6	34.7	34.8	35.0	35.1	35.2	35.4	55
56	34.5	34.7	34.8	35.0	35.1	35.2	35.4	35.5	35.6	35.8	56
57	34.9	35.0	35.2	35.3	35.5	35.6	35.8	35.9	36.0	36.2	57
58	35.3	35.4	35.6	35.7	35.9	36.0	36.2	36.3	36.4	36.6	58
59	35.6	35.8	35.9	36.1	36.2	36.4	36.5	36.7	36.8	37.0	59
60	36.0	36.2	36 3	36.5	36.6	36.8	36.9	37.1	37.2	37.4	60
61	36.4	36.5	36.7	36.8	37.0	37.1	37.3	37.4	37.6	37.7	61
62	36.7	36.9	37.0	37.2	37.4	37.5	37.7	37.8	38.0	38.1	62
63	37.1	37.2	37.4	37.6	37.7	37.9	38.0	38.2	38.3	38.5	63
64	37.4	37.6	37.7	37.9	38.1	38.2	38.4	38.6	38.7	38.9	64
65	37.7	37.9	38.1	38.3	38.4	38.6	38.8	38.9	39.1	39.2	65
66	38.1	38.3	38.4	38.6	38.8	38.9	39.1	39.3	39.4	39.6	66
67	38.4	38.6	38.8	38.9	39.1	39.3	39.5	39.6	39.8	40.0	67
68	38.7	38.9	39.1	39.3	39.5	39.6	39 8	40.0	40.1	40.3	68
69	39.1	39.2	39.4	39.6	39.8	40.0	40.1	40.3	40.5	40.7	69
70	39.4	39.6	39.8	39.9	40.1	40.3	40.5	40.7	40.8	41.0	70
71	39.7	39.9	40.1	40.3	40.4	40.6	40.8	41.0	41.2	41.3	71
72	40.0	40.2	40.4	40.6	40.8	41.0	41.1	41.3	41.5	41.7	72
73	40.3	40.5	40.7	40.9	41.1	41.3	41.5	41.7	41.8	42.0	73
74	40.6	40.8	41.0	41.2	41.4	41.6	41.8	42.0	42.2	42.3	74
75	40.9	41.1	41.3	41.5	41.7	41.9	42.1	42.3	42.5	42.7	75
76	41.2	41.4	41.6	41.8	42.0	42.2	42.4	42.6	42.8	43.0	76
77	41.5	41.7	41.9	42.1	42.3	42.5	42.7	42.9	43.1	43.3	77
78	41.8	42.0	42.2	42.4	42.6	42.8	43.0	43.2	43.4	43.6	78
79	42.1	42.3	42.5	42.7	42.9	43.1	43.3	43.5	43.7	43.9	79
80	42.4	42.6	42.8	43.0	43.2	43.4	43.6	43.8	44.0	44.2	80
81	42.6	42.9	43.1	43.3	43.5	43.7	43.9	44.1	44.3	44.6	81
82	42.9	43.1	43 4	43.6	43.8	44.0	44.2	44.4	44.6	44.9	82
83	43.2	43.4	43.6	43.9	44.1	44.3	44.5	44.7	44.9	45.1	83
84	43.4	43.7	43.9	44.1	44.4	44.6	44.8	45.0	45.2	45.4	84
85	43.7	43.9	44.2	44.4	44.6	44 9	45.1	45.3	45.5	45.7	85
86	44.0	44.2	44.4	44.7	44.9	45 1	45.4	45.6	45.8	46.0	86
87	44.2	44.5	44.7	45.0	45.2	45.4	45.6	45.9	46.1	46.3	87
88	44.5	44.7	45.0	45.2	45.5	45.7	45.9	46.1	46.4	46.6	88
89	44.7	45.0	45.2	45.5	45.7	46.0	46.2	46.4	46.6	46.9	89
90	45.0	45.2	45.5	45.7	46.0	46.2	46.5	46.7	46.9	47.1	90
91	45.2	45.5	45.7	46.0	46.2	46.5	46.7	47.0	47.2	47.4	91
92	45.5	45.7	46.0	46.2	46.5	46.7	47.0	47.2	47.5	47.7	92
93	45.7	46.0	46.2	46.5	46.7	47.0	47.2	47.5	47.7	48.0	93
94	46.0	46.2	46.5	46.7	47.0	47.2	47.5	47.7	48.0	48.2	94
95	46.2	46.5	46.7	47.0	47.2	47.5	47.7	48.0	48.2	48.5	95
96	46.5	46.7	47.0	47.2	47.5	47.7	48.0	48.2	48.5	48.7	96
97	46.7	47.0	47.2	47.5	47.7	48.0	48.2	48.5	48.7	49.0	97
98	46.9	47.2	47.5	47.7	48.0	48.2	48.5	48.7	49.0	49.2	98
99	47.1	47.4	47.7	48.0	48.2	48.5	48.7	49.0	49.2	49.5	99
100	47.4	47.6	47.9	48.2	48.5	48.7	49.0	49.2	49.5	49.7	100
	90	91	92	93	94	95	96	97	98	99	