ОТЧЕТ ПО ЛАБОРАТОРНОЙ РАБОТЕ №2

Вариант 22

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Ссылка на репозиторий: https://github.com/ CorgiPuppy/ num-methods-eq-math-phys-chem-labs

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Оглавление

Описание задачи

Вариант	Уравнение	Интервалы переменных	Начальные и граничные условия
22	$\frac{\partial u}{\partial t} = \frac{\partial^2 u}{\partial x^2}$	x in $[0, 1]$ t in $[0, 1]$	$u(t = 0, x) = e^x$ $u(t, x = 0) = e^t$ $u(t, x = 1) = e^{t+1}$

Для заданного уравнения:

1. записать неявную разностную схему;
2. определить порядок аппроксимации разностной схемы;
3. доказать абсолютную устойчивость разностной схемы (с помощью метода гармоник);
4. привести схему к виду, удобному для использования метода прогонки;
5. проверить сходимость прогонки;
6. найти α_1, β_1, u_N^{n+1}
7. записать рекуррентное прогоночное соотношение;
8. составить алгоритм (блок-схему) расчёта;
9. построить программу на любом удобном языке программирования;
10. провести численный расчёт с использованием различных значений $\Delta t(0.1,\ 0.01,\ 0.001)$, $h = 0.1$
11. составить отчёт о проделанной работе;
12. сравнить результаты расчётов заданий №1 и №2 друг с другом, а также с истинными значениями функции u и в соответствующих точках разностной сетки (*истинное решение уравнения будет выдано преподавателем после выполнения расчётов по явной и неявной разностным схемам*).

Выполнение задачи

Задание 1

Записать неявную разностную схему:

$$\frac{u_j^{n+1} - u_j^n}{\Delta t} = \frac{u_{j+1}^{n+1} - 2u_j^{n+1} + u_{j-1}^{n+1}}{h^2}. \tag{1}$$

В записанной разностной схеме уравнения 1 аппроксимация второй производной функции $u(t, x)$ по координате рассматривается на $n+1$-м шаге по времени, т.е. относительно точки t^{n+1}, для которой рассматривается аппроксимация всего уравнения. Такая разностная схема называется **неявной**.

Задание 2

Определить порядок аппроксимации разностной схемы уравнения 1: Для этого запишу разложение значений u_j^{n+1}, u_{j+1}^{n+1}, u_{j-1}^{n+1} в ряд Тейлора относительно точки (t^{n+1}, x_j):

$$u_j^n = u_j^{n+1} - \frac{\partial u}{\partial t}\big|_j^{n+1} \Delta t + \frac{\partial^2 u}{\partial t^2}\big|_j^{n+1} \frac{(\Delta t)^2}{2!} - \frac{\partial^3 u}{\partial t^3}\big|_j^{n+1} \frac{(\Delta t)^3}{3!} + ..., \tag{2}$$

$$u_{j+1}^{n+1} = u_j^{n+1} + \frac{\partial u}{\partial x}\big|_j^{n+1} h + \frac{\partial^2 u}{\partial x^2}\big|_j^{n+1} \frac{h^2}{2!} + \frac{\partial^3 u}{\partial x^3}\big|_j^{n+1} \frac{h^3}{3} + \frac{\partial^4 u}{\partial x^4}\big|_j^{n+1} \frac{h^4}{4} + ..., \tag{3}$$

$$u_{j-1}^{n+1} = u_j^{n+1} - \frac{\partial u}{\partial x}\big|_j^{n+1} h + \frac{\partial^2 u}{\partial x^2}\big|_j^{n+1} \frac{h^2}{2!} - \frac{\partial^3 u}{\partial x^3}\big|_j^{n+1} \frac{h^3}{3} + \frac{\partial^4 u}{\partial x^4}\big|_j^{n+1} \frac{h^4}{4} + ... \tag{4}$$

Подставляя зависимости уравнения 2 - уравнения 4 в разностную схему уравнения 1, получаю:

$$\frac{\partial u}{\partial t}\big|_j^{n+1} - \frac{\partial^2 u}{\partial t^2}\big|_j^{n+1} \frac{(\Delta t)}{2!} + \frac{\partial^3 u}{\partial t^3}\big|_j^{n+1} \frac{(\Delta t)^2}{3!} - ... = \frac{\partial^2 u}{\partial x^2}\big|_j^{n+1} \frac{h^2}{2!} + \frac{\partial^4 u}{\partial x^4}\big|_j^{n+1} \frac{h^4}{4} + ...$$

$$\Rightarrow \frac{\partial u}{\partial t}\big|_j^{n+1} + O(\Delta t) = \frac{\partial^2 u}{\partial x^2}\big|_j^{n+1} + O(h^2).$$

Таким образом, неявная разностная схема уравнения 1 аппроксимирует исходное дифференциальное уравнение с первым порядком по времени и со вторым порядком по координате, что записывается в следующем виде:

$$O(\Delta t) + O(h^2) \text{ или } O(\Delta t, h^2).$$

Задание 3

Доказать абсолютную устойчивость разностной схемы уравнения 1 (с помощью метода гармоник):

Представляю решение разностной схемы в виде гармоники:

$$u_j^n = \lambda^n e^{i\alpha j}. \tag{5}$$

Подставляя уравнения 5 в разностную схему уравнения 1, получаю:

$$\frac{\lambda^{n+1}e^{i\alpha j} - \lambda^n e^{i\alpha j}}{\Delta t} = \frac{\lambda^{n+1}e^{i\alpha(j+1)} - 2\lambda^{n+1}e^{i\alpha j} + \lambda^{n+1}e^{i\alpha(j-1)}}{h^2}.$$

Упрощаю полученное выражение, деля левую и правую его части на $\lambda^n e^{i\alpha j}$:

$$\frac{\lambda - 1}{\Delta t} = \frac{\lambda e^{i\alpha} - 2\lambda + \lambda e^{-i\alpha}}{h^2}$$

Преобразую комплексные числа из экспоненциальной формы в тригонометрическую:

$$e^{\pm i\alpha} = \cos\alpha \pm i\sin\alpha \Rightarrow \frac{\lambda - 1}{\Delta t} = \lambda\frac{2\cos\alpha - 2}{h^2}.$$

Используя тригонометрические тождества

$$\cos\alpha = \cos^2\frac{\alpha}{2} - \sin^2\frac{\alpha}{2} = 1 - 2\sin^2\frac{\alpha}{2},$$

получаю формулу, из которой затем выражаю λ:

$$\frac{\lambda - 1}{\Delta t} = \frac{-4\lambda\sin^2\frac{\alpha}{2}}{h^2} \Rightarrow \lambda = \frac{1}{1 + \frac{4\Delta t\sin^2\frac{\alpha}{2}}{h^2}}.$$

С учётом необходимого условия устойчивости разностных схем $|\lambda| \leq 1$ имею:

$$-1 \leq \frac{1}{1 + \frac{4\Delta t\sin^2\frac{\alpha}{2}}{h^2}} \leq 1.$$

В полученном двойном неравенстве левое и правое условие выполняются автоматически.

Для любых значений Δt и h неравенство выполняется. Следовательно, разностная схема **абсолютно устойчива**.

Задание 4

Привести схему к виду, удобному для использования метода прогонки:

Преобразую неявную разностную схемы уравнения 1, группируя в левой части члены, содержащие значение функции $u(t, x)$ на $(n + 1)$ шаге по времени, а в правой части - все остальные члены:

$$-\frac{\Delta t}{h^2}u_{j+1}^{n+1} + \left(1 + 2\frac{\Delta t}{h^2}\right)u_j^{n+1} - \frac{\Delta t}{h^2}u_{j-1}^{n+1} = u_j^n. \tag{6}$$

Введу следующие обозначения:

$$a_j = -\frac{\Delta t}{h^2}; b_j = \left(1 + 2\frac{\Delta t}{h^2}\right); c_j = -\frac{\Delta t}{h^2}; \xi_j^n = u_j^n. \tag{7}$$

С учётом обозначений уравнения 7 равенство уравнения 6 будет иметь вид:

$$a_j u_{j+1}^{n+1} + b_j u_j^{n+1} + c_j u_{j-1}^{n+1} = \xi_j^n$$

Данное преобразование называется *преобразованием неявной разностной схемы к виду, удобному для использования метода прогонки.*

Задание 5

Проверить сходимость прогонки:

Теорема. Достаточным условием сходимости метода прогонки к решению исходной дифференциальной задачи является выполнение неравенства:

$$|a_j| + |c_j| < |b_j|$$

Легко видеть, что для разностной схемы достаточное условие сходимости прогонки выполняется:

$$|a_j| + |c_j| = 2\frac{\Delta t}{h^2} < 1 + 2\frac{\Delta t}{h^2} = |b_j|$$

Задание 6

Найти α_1, β_1, u_N^{n+1}:

Для реализации неявной разностной схемы требуется ввести некоторое дополнительно условие, связывающее значения функции $u(t, x)$ на $(n+1)$-м шаге по времени. Представлю это дополнительное условие в виде линейной зависимости

$$u_j^{n+1} = \alpha_j u_{j+1}^{n+1} + \beta_j, \tag{8}$$

справедливой для любого значений $j = 1, ..., N-1$.

Соотношение уравнения 8 называют **рекуррентным прогоночным соотношением**, а коэффициенты a_j, β_j - **прогоночными коэффициентами**.

Для определния прогоночных коэффициентов на 1-м шаге по координате x, использую рекуррентное прогоночное соотношение уравнения 8, записанное для $j = 1$:

$$u_1^{n+1} = \alpha_1 u_2^{n+1} + \beta_1,$$

и левое граничное условие:

$$u_1^{n+1} = e^{(n+1)\Delta t}$$

Сравнивая эти два соотношения, получаю:

$$\alpha_1 = 0, \beta_1 = e^{(n+1)\Delta t}.$$

Значение функции $u(t, x)$ на $(n+1)$-м шаге по времени в крайней правой точке, которое можно определить из правого граничного условия:

$$u_N^{n+1} = e^{(n+1)\Delta t+1}.$$

Задание 7

Записать рекуррентное прогоночное соотношение:

Соотношение уравнения 8 является **рекуррентным прогоночным соотношением**.

Задание 8

Составить алгоритм (блок-схему) расчёта:

```
Start
```

цикл по $j = 1..N_x$
$u_j^0 = e^{(j-1)h}$

$n = N_t$ — Yes → End

No

Определение α_1, β_1 из левого граничного условия
$\alpha_1 = 0$
$\beta_1 = e^{(n+1)\Delta t}$

цикл по $j = 2, ..., N_x - 1$
расчёт a_j, b_j, c_j, ξ_j^n; $\alpha_j = -\frac{a_j}{b_j + c_j \alpha_{j-1}}$, $\beta_j = \frac{\xi_j^n - c_j \beta_{j-1}}{b_j + c_j \alpha_{j-1}}$

Определение u_N^{n+1} из правого граничного условия
$u_N^{n+1} = e^{(n+1)\Delta t + 1}$

цикл по $j = N_x - 1, ..., 1$
$u_j^{n+1} = \alpha_j u_{j+1}^{n+1} + \beta_j$

$n = n + 1$
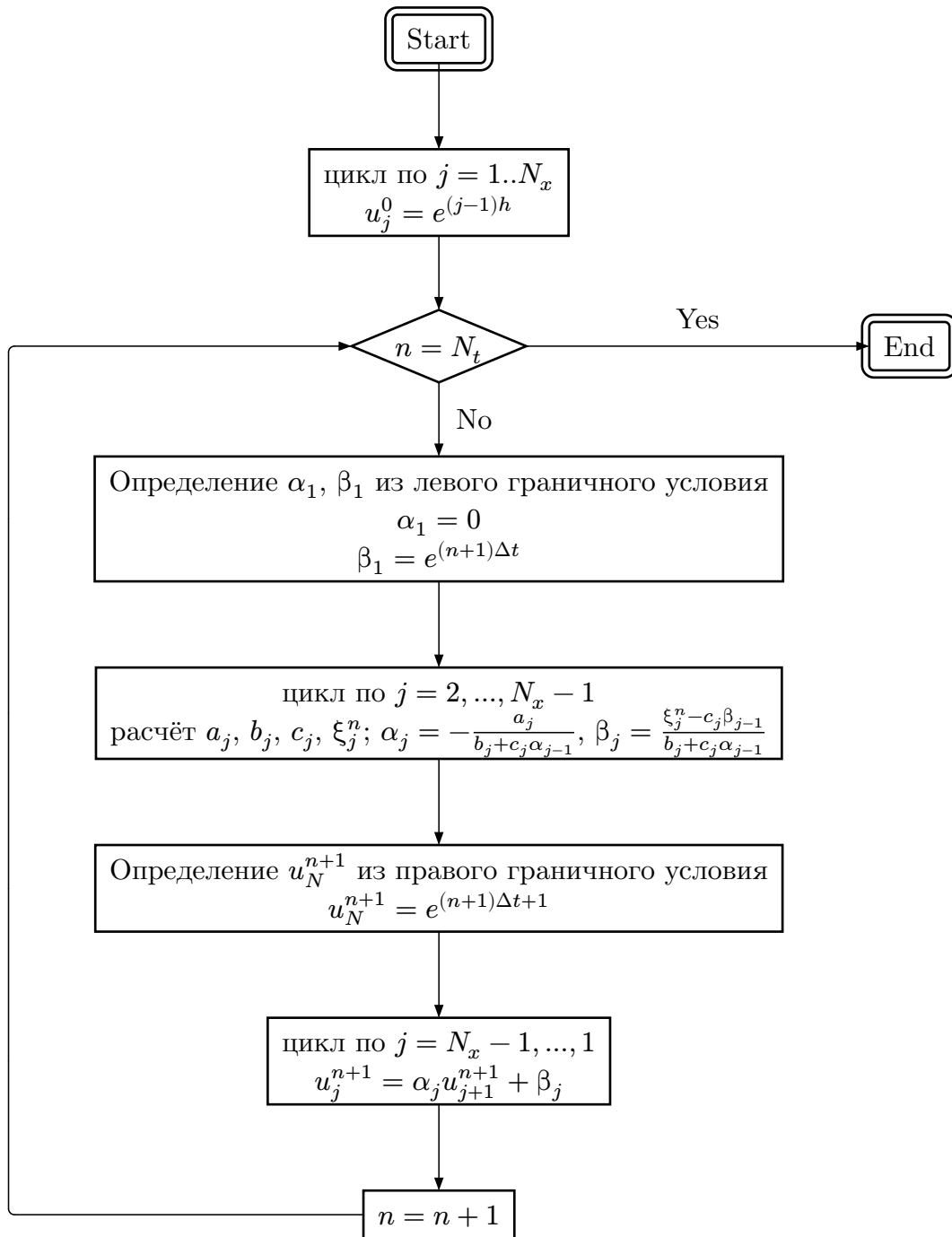
Задание 9

Построить программу на любом удобном языке программирования:

```cpp
#include <iostream>
#include <cmath>
#include <fstream>

#include "../include/Constants.h"

int main() {
  int N_x = 1 + (Constants::x_end - Constants::x_start) / Constants::h;
  int N_t[Constants::amount_of_delta_t] = {0};
  for (int i = 0; i < Constants::amount_of_delta_t; i++)
    N_t[i] = 1 + (Constants::t_end - Constants::t_start) / Constants::delta_t[i];
```

```cpp
for (int i = 0; i < Constants::amount_of_delta_t; i++) {
  double** u = new double*[N_t[i]];
  for (int n = 0; n < N_t[i]; n++) {
      u[n] = new double[N_x]();
  }

  for (int j = 0; j <= N_x - 1; j++) {
    u[0][j] = std::exp(j * Constants::h);
  }

  double* a = new double[N_x]();
  double* b = new double[N_x]();
  double* c = new double[N_x]();
  double* ksi = new double[N_x]();
  double* alpha = new double[N_x]();
  double* beta = new double[N_x]();

  int n = 0;
  while (!(n == (N_t[i] - 1))) {
    alpha[0] = 0.0;
    beta[0] = std::exp((n + 1) * Constants::delta_t[i]);

    for (int j = 1; j <= N_x - 2; j++) {
      a[j] = - (Constants::delta_t[i]) / (std::pow(Constants::h, 2));
      b[j] = 1 + 2 * (Constants::delta_t[i]) / (std::pow(Constants::h, 2));
      c[j] = - (Constants::delta_t[i]) / (std::pow(Constants::h, 2));
      ksi[j] = u[n][j];
      alpha[j] = - (a[j]) / (b[j] + c[j] * alpha[j - 1]);
      beta[j] = (ksi[j] - c[j] * beta[j - 1]) / (b[j] + c[j] * alpha[j - 1]);
    }

    u[n + 1][N_x - 1] = std::exp((n + 1) * Constants::delta_t[i] + 1);

    for (int j = N_x - 2; j >= 0; j--) {
      u[n + 1][j] = alpha[j] * u[n + 1][j + 1] + beta[j];
    }

    n++;
  }

  std::ofstream csvFile(Constants::csvPath[i]);
  csvFile << "t\\x,";
  for (int j = 0; j <= N_x - 1; j++) {
    csvFile << j * Constants::h;
    if (j != (N_x - 1)) csvFile << ",";
  }
  csvFile << "\n";
  for (int n = 0; n < N_t[i]; n++) {
    double t = n * Constants::delta_t[i];
    csvFile << t << ",";
    for (int j = 0; j < N_x; j++) {
      csvFile << u[n][j];
      if (j != (N_x - 1)) csvFile << ",";
    }
```

```
      csvFile << "\n";
    }
    csvFile.close();

    std::ofstream plotFile(Constants::plotPath[i]);
    for (int n = 0; n < N_t[i]; n++) {
      double t = n * Constants::delta_t[i];
      for (int j = 0; j < N_x; j++) {
        double x = j * Constants::h;
        plotFile << t << " " << x << " " << u[n][j] << "\n";
      }
      plotFile << "\n";
    }
    plotFile.close();

    for (int n = 0; n < N_t[i]; n++) {
        delete[] u[n];
    }

    delete[] u;
    delete[] a;
    delete[] b;
    delete[] c;
    delete[] ksi;
    delete[] alpha;
    delete[] beta;
  }

  return 0;
}
```

Задание 10

Провести численный расчёт с использованием различных значений $\Delta t(0.1,\ 0.01,\ 0.001)$, $h = 0.1$:

t\x	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
0	1	1.10517	1.2214	1.34986	1.49182	1.64872	1.82212	2.01375	2.22554	2.4596	2.71828
0.1	1.10517	1.22323	1.35309	1.49612	1.65377	1.82762	2.01936	2.23082	2.46399	2.72101	3.00417
0.2	1.2214	1.35275	1.49706	1.65576	1.83042	2.02275	2.23459	2.46795	2.72503	3.00821	3.32012
0.3	1.34986	1.49547	1.65536	1.83108	2.02433	2.23697	2.47104	2.72875	3.01253	3.32507	3.6693
0.4	1.49182	1.65299	1.8299	2.02426	2.23795	2.47299	2.73164	3.01635	3.32981	3.67501	4.0552
0.5	1.64872	1.82695	2.02257	2.23746	2.47368	2.73346	3.01929	3.33389	3.68024	4.06163	4.48169
0.6	1.82212	2.01915	2.2354	2.47294	2.73402	3.02113	3.33702	3.68467	4.06741	4.48886	4.95303
0.7	2.01375	2.23154	2.47056	2.7331	3.02165	3.33897	3.68807	4.07227	4.49524	4.96099	5.47395
0.8	2.22554	2.46624	2.73042	3.02058	3.33949	3.69018	4.07599	4.5006	4.96804	5.48275	6.04965
0.9	2.4596	2.72563	3.01759	3.33828	3.69073	4.0783	4.50469	4.97395	5.49054	6.05939	6.68589
1	2.71828	3.01229	3.33496	3.68938	4.0789	4.50723	4.97847	5.49707	6.068	6.69666	7.38906

t\x	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
0	1	1.10517	1.2214	1.34986	1.49182	1.64872	1.82212	2.01375	2.22554	2.4596	2.71828
0.01	1.01005	1.11632	1.23374	1.3635	1.5069	1.66539	1.84054	2.0341	2.24802	2.48441	2.7456
0.02	1.0202	1.12757	1.2462	1.37728	1.52213	1.68222	1.85913	2.05464	2.2707	2.50943	2.77319
0.03	1.03045	1.13893	1.25877	1.39119	1.53751	1.69921	1.87791	2.07538	2.29359	2.5347	2.80107
0.04	1.04081	1.1504	1.27147	1.40523	1.55304	1.71637	1.89687	2.09632	2.31671	2.56021	2.82922
0.05	1.05127	1.16199	1.28429	1.41941	1.56872	1.7337	1.91601	2.11746	2.34004	2.58597	2.85765
0.06	1.06184	1.17369	1.29724	1.43373	1.58455	1.75119	1.93533	2.1388	2.36361	2.61198	2.88637
0.07	1.07251	1.1855	1.31031	1.44819	1.60053	1.76886	1.95485	2.16035	2.3874	2.63826	2.91538
0.08	1.08329	1.19743	1.32351	1.46279	1.61667	1.78669	1.97455	2.18211	2.41144	2.66479	2.94468
0.09	1.09417	1.20948	1.33684	1.47754	1.63297	1.8047	1.99445	2.20409	2.4357	2.69159	2.97427
0.1	1.10517	1.22165	1.35031	1.49242	1.64943	1.82289	2.01454	2.22628	2.46021	2.71866	3.00417
0.11	1.11628	1.23395	1.3639	1.50746	1.66605	1.84126	2.03483	2.24869	2.48497	2.74599	3.03436
0.12	1.1275	1.24636	1.37763	1.52264	1.68283	1.8598	2.05532	2.27133	2.50997	2.7736	3.06485
0.13	1.13883	1.2589	1.3915	1.53797	1.69978	1.87853	2.07601	2.29418	2.53521	2.80149	3.09566
0.14	1.15027	1.27156	1.40551	1.55346	1.71689	1.89744	2.09691	2.31727	2.56071	2.82966	3.12677
0.15	1.16183	1.28435	1.41965	1.56909	1.73418	1.91654	2.11801	2.34058	2.58647	2.85811	3.15819
0.16	1.17351	1.29726	1.43393	1.58489	1.75163	1.93583	2.13932	2.36413	2.61248	2.88684	3.18993
0.17	1.1853	1.31031	1.44836	1.60084	1.76926	1.95531	2.16085	2.38791	2.63875	2.91586	3.22199
0.18	1.19722	1.32349	1.46293	1.61694	1.78706	1.97499	2.18259	2.41193	2.66528	2.94517	3.25437
0.19	1.20925	1.33679	1.47764	1.63321	1.80504	1.99486	2.20454	2.43618	2.69208	2.97478	3.28708
0.2	1.2214	1.35023	1.49251	1.64964	1.8232	2.01493	2.22672	2.46068	2.71915	3.00468	3.32012
0.21	1.23368	1.36381	1.50752	1.66623	1.84154	2.0352	2.24911	2.48543	2.74649	3.03488	3.35348
0.22	1.24608	1.37752	1.52268	1.68299	1.86007	2.05567	2.27173	2.51042	2.7741	3.06539	3.38719
0.23	1.2586	1.39137	1.53799	1.69992	1.87878	2.07634	2.29458	2.53566	2.80199	3.0962	3.42123
0.24	1.27125	1.40536	1.55345	1.71701	1.89767	2.09722	2.31765	2.56116	2.83016	3.12732	3.45561
0.25	1.28403	1.41949	1.56907	1.73428	1.91675	2.11831	2.34096	2.58691	2.85861	3.15876	3.49034
0.26	1.29693	1.43375	1.58485	1.75172	1.93603	2.13961	2.36449	2.61291	2.88734	3.19051	3.52542
0.27	1.30996	1.44817	1.60078	1.76933	1.95549	2.16112	2.38827	2.63918	2.91637	3.22258	3.56085
0.28	1.32313	1.46272	1.61688	1.78712	1.97516	2.18285	2.41228	2.66571	2.94568	3.25497	3.59664
0.29	1.33643	1.47743	1.63313	1.80509	1.99501	2.2048	2.43653	2.69251	2.97529	3.28768	3.63279
0.3	1.34986	1.49228	1.64955	1.82324	2.01507	2.22697	2.46102	2.71958	3.0052	3.32073	3.6693
0.31	1.36343	1.50728	1.66613	1.84157	2.03533	2.24935	2.48576	2.74692	3.03541	3.3541	3.70617
0.32	1.37713	1.52243	1.68288	1.86008	2.05579	2.27197	2.51075	2.77453	3.06592	3.38781	3.74342
0.33	1.39097	1.53773	1.6998	1.87878	2.07646	2.29481	2.53599	2.80242	3.09673	3.42186	3.78104
0.34	1.40495	1.55319	1.71688	1.89766	2.09733	2.31787	2.56148	2.83059	3.12786	3.45625	3.81904
0.35	1.41907	1.5688	1.73414	1.91674	2.11842	2.34117	2.58723	2.85904	3.1593	3.49099	3.85743
0.36	1.43333	1.58457	1.75157	1.93601	2.13971	2.36471	2.61324	2.88778	3.19105	3.52608	3.89619
0.37	1.44773	1.60049	1.76918	1.95547	2.16122	2.38848	2.63951	2.9168	3.22312	3.56152	3.93535
0.38	1.46228	1.61658	1.78696	1.97512	2.18294	2.41249	2.66604	2.94612	3.25552	3.59731	3.9749
0.39	1.47698	1.63283	1.80492	1.99498	2.20488	2.43673	2.69283	2.97573	3.28824	3.63347	4.01485

0.4	1.49182	1.64924	1.82306	2.01503	2.22705	2.46123	2.7199	3.00564	3.32129	3.66998	4.0552
0.41	1.50682	1.66581	1.84139	2.03528	2.24943	2.48597	2.74724	3.03585	3.35467	3.70687	4.09596
0.42	1.52196	1.68256	1.85989	2.05574	2.27204	2.51095	2.77485	3.06636	3.38838	3.74412	4.13712
0.43	1.53726	1.69947	1.87859	2.0764	2.29488	2.53619	2.80274	3.09718	3.42244	3.78175	4.1787
0.44	1.55271	1.71655	1.89747	2.09727	2.31794	2.56168	2.83091	3.12831	3.45684	3.81976	4.2207
0.45	1.56831	1.7338	1.91654	2.11835	2.34124	2.58743	2.85936	3.15975	3.49158	3.85815	4.26311
0.46	1.58407	1.75123	1.9358	2.13964	2.36477	2.61343	2.8881	3.19151	3.52667	3.89693	4.30596
0.47	1.59999	1.76883	1.95526	2.16115	2.38854	2.6397	2.91713	3.22358	3.56212	3.93609	4.34924
0.48	1.61607	1.7866	1.97491	2.18287	2.41255	2.66623	2.94645	3.25598	3.59792	3.97565	4.39295
0.49	1.63232	1.80456	1.99476	2.20481	2.43679	2.69303	2.97606	3.28871	3.63408	4.01561	4.4371
0.5	1.64872	1.8227	2.01481	2.22697	2.46129	2.7201	3.00597	3.32176	3.6706	4.05597	4.48169
0.51	1.66529	1.84101	2.03506	2.24935	2.48602	2.74743	3.03618	3.35515	3.70749	4.09673	4.52673
0.52	1.68203	1.85952	2.05551	2.27196	2.51101	2.77505	3.0667	3.38887	3.74475	4.1379	4.57223
0.53	1.69893	1.87821	2.07617	2.29479	2.53625	2.80294	3.09752	3.42293	3.78239	4.17949	4.61818
0.54	1.71601	1.89708	2.09704	2.31785	2.56174	2.83111	3.12865	3.45733	3.8204	4.22149	4.66459
0.55	1.73325	1.91615	2.11811	2.34115	2.58748	2.85956	3.1601	3.49207	3.8588	4.26392	4.71147
0.56	1.75067	1.93541	2.1394	2.36468	2.61349	2.8883	3.19186	3.52717	3.89758	4.30678	4.75882
0.57	1.76827	1.95486	2.1609	2.38844	2.63975	2.91733	3.22394	3.56262	3.93675	4.35006	4.80665
0.58	1.78604	1.9745	2.18262	2.41245	2.66628	2.94665	3.25634	3.59843	3.97632	4.39378	4.85496
0.59	1.80399	1.99435	2.20455	2.4367	2.69308	2.97627	3.28906	3.63459	4.01628	4.43794	4.90375
0.6	1.82212	2.01439	2.22671	2.46118	2.72015	3.00618	3.32212	3.67112	4.05665	4.48254	4.95303
0.61	1.84043	2.03464	2.24909	2.48592	2.74749	3.03639	3.35551	3.70802	4.09742	4.52759	5.00281
0.62	1.85893	2.05509	2.27169	2.5109	2.7751	3.06691	3.38923	3.74528	4.1386	4.57309	5.05309
0.63	1.87761	2.07574	2.29452	2.53614	2.80299	3.09773	3.4233	3.78292	4.18019	4.61905	5.10387
0.64	1.89648	2.0966	2.31759	2.56163	2.83116	3.12886	3.4577	3.82094	4.2222	4.66547	5.15517
0.65	1.91554	2.11767	2.34088	2.58737	2.85962	3.16031	3.49245	3.85934	4.26464	4.71236	5.20698
0.66	1.93479	2.13896	2.3644	2.61338	2.88835	3.19207	3.52755	3.89813	4.3075	4.75972	5.25931
0.67	1.95424	2.16045	2.38817	2.63964	2.91738	3.22415	3.563	3.93731	4.35079	4.80756	5.31217
0.68	1.97388	2.18217	2.41217	2.66617	2.9467	3.25656	3.59881	3.97688	4.39451	4.85588	5.36556
0.69	1.99372	2.2041	2.43641	2.69297	2.97632	3.28929	3.63498	4.01685	4.43868	4.90468	5.41948
0.7	2.01375	2.22625	2.4609	2.72003	3.00623	3.32234	3.67151	4.05722	4.48329	4.95397	5.47395
0.71	2.03399	2.24862	2.48563	2.74737	3.03645	3.35573	3.70841	4.09799	4.52835	5.00376	5.52896
0.72	2.05443	2.27122	2.51061	2.77498	3.06696	3.38946	3.74568	4.13918	4.57386	5.05405	5.58453
0.73	2.07508	2.29405	2.53584	2.80287	3.09779	3.42352	3.78333	4.18078	4.61983	5.10484	5.64065
0.74	2.09594	2.3171	2.56133	2.83104	3.12892	3.45793	3.82135	4.2228	4.66626	5.15615	5.69734
0.75	2.117	2.34039	2.58707	2.85949	3.16037	3.49268	3.85976	4.26524	4.71315	5.20797	5.7546
0.76	2.13828	2.36391	2.61307	2.88823	3.19213	3.52779	3.89855	4.3081	4.76052	5.26031	5.81244
0.77	2.15977	2.38767	2.63933	2.91726	3.22421	3.56324	3.93773	4.3514	4.80837	5.31318	5.87085
0.78	2.18147	2.41167	2.66586	2.94658	3.25661	3.59905	3.9773	4.39513	4.85669	5.36657	5.92986
0.79	2.2034	2.43591	2.69265	2.97619	3.28934	3.63522	4.01728	4.4393	4.9055	5.42051	5.98945
0.8	2.22554	2.46039	2.71971	3.0061	3.3224	3.67176	4.05765	4.48392	4.9548	5.47499	6.04965

0.81	2.24791	2.48511	2.74705	3.03631	3.35579	3.70866	4.09843	4.52898	5.0046	5.53001	6.11045
0.82	2.2705	2.51009	2.77465	3.06683	3.38952	3.74593	4.13962	4.5745	5.0549	5.58559	6.17186
0.83	2.29332	2.53532	2.80254	3.09765	3.42358	3.78358	4.18123	4.62047	5.1057	5.64172	6.23389
0.84	2.31637	2.5608	2.83071	3.12878	3.45799	3.82161	4.22325	4.66691	5.15701	5.69842	6.29654
0.85	2.33965	2.58653	2.85916	3.16023	3.49274	3.86001	4.26569	4.71381	5.20884	5.75569	6.35982
0.86	2.36316	2.61253	2.88789	3.19199	3.52785	3.89881	4.30856	4.76119	5.26119	5.81354	6.42374
0.87	2.38691	2.63878	2.91691	3.22407	3.5633	3.93799	4.35187	4.80904	5.31407	5.87197	6.4883
0.88	2.4109	2.6653	2.94623	3.25647	3.59911	3.97757	4.3956	4.85737	5.36747	5.93098	6.5535
0.89	2.43513	2.69209	2.97584	3.2892	3.63529	4.01754	4.43978	4.90619	5.42142	5.99059	6.61937
0.9	2.4596	2.71915	3.00575	3.32226	3.67182	4.05792	4.4844	4.9555	5.4759	6.0508	6.68589
0.91	2.48432	2.74648	3.03596	3.35565	3.70872	4.0987	4.52947	5.0053	5.53094	6.11161	6.75309
0.92	2.50929	2.77408	3.06647	3.38937	3.746	4.1399	4.57499	5.05561	5.58652	6.17303	6.82096
0.93	2.53451	2.80196	3.09729	3.42343	3.78365	4.1815	4.62097	5.10641	5.64267	6.23507	6.88951
0.94	2.55998	2.83012	3.12842	3.45784	3.82167	4.22353	4.66741	5.15774	5.69938	6.29773	6.95875
0.95	2.58571	2.85856	3.15986	3.49259	3.86008	4.26598	4.71432	5.20957	5.75666	6.36103	7.02869
0.96	2.6117	2.88729	3.19161	3.52769	3.89887	4.30885	4.7617	5.26193	5.81451	6.42496	7.09933
0.97	2.63794	2.91631	3.22369	3.56315	3.93806	4.35215	4.80956	5.31481	5.87295	6.48953	7.17068
0.98	2.66446	2.94562	3.25609	3.59896	3.97764	4.39589	4.85789	5.36823	5.93198	6.55475	7.24274
0.99	2.69123	2.97522	3.28881	3.63513	4.01761	4.44007	4.90671	5.42218	5.99159	6.62063	7.31553
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t\x	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
0	1	1.10517	1.2214	1.34986	1.49182	1.64872	1.82212	2.01375	2.22554	2.4596	2.71828
0.001	1.001	1.10628	1.22263	1.35121	1.49332	1.65037	1.82394	2.01577	2.22777	2.46207	2.721
0.002	1.002	1.10739	1.22385	1.35256	1.49482	1.65203	1.82577	2.01779	2.23	2.46453	2.72372
0.003	1.003	1.1085	1.22508	1.35392	1.49631	1.65368	1.8276	2.01981	2.23224	2.467	2.72645
0.004	1.00401	1.10961	1.2263	1.35528	1.49781	1.65534	1.82943	2.02183	2.23447	2.46947	2.72918
0.005	1.00501	1.11072	1.22753	1.35663	1.49931	1.657	1.83126	2.02386	2.23671	2.47194	2.73191
0.006	1.00602	1.11183	1.22876	1.35799	1.50081	1.65866	1.8331	2.02589	2.23895	2.47442	2.73464
0.007	1.00702	1.11294	1.22999	1.35935	1.50232	1.66032	1.83494	2.02792	2.24119	2.4769	2.73738
0.008	1.00803	1.11406	1.23123	1.36072	1.50382	1.66198	1.83677	2.02995	2.24344	2.47938	2.74012
0.009	1.00904	1.11517	1.23246	1.36208	1.50533	1.66365	1.83861	2.03198	2.24569	2.48186	2.74286
0.01	1.01005	1.11629	1.23369	1.36344	1.50684	1.66531	1.84046	2.03402	2.24794	2.48434	2.7456
0.011	1.01106	1.11741	1.23493	1.36481	1.50835	1.66698	1.8423	2.03606	2.25019	2.48683	2.74835
0.012	1.01207	1.11853	1.23617	1.36618	1.50986	1.66865	1.84415	2.03809	2.25244	2.48932	2.7511
0.013	1.01308	1.11965	1.2374	1.36754	1.51137	1.67032	1.84599	2.04014	2.2547	2.49181	2.75385
0.014	1.0141	1.12077	1.23864	1.36891	1.51289	1.672	1.84784	2.04218	2.25695	2.49431	2.75661
0.015	1.01511	1.12189	1.23988	1.37029	1.5144	1.67367	1.84969	2.04423	2.25921	2.4968	2.75936
0.016	1.01613	1.12301	1.24113	1.37166	1.51592	1.67535	1.85155	2.04627	2.26148	2.4993	2.76212
0.017	1.01715	1.12414	1.24237	1.37303	1.51744	1.67703	1.8534	2.04832	2.26374	2.50181	2.76489
0.018	1.01816	1.12526	1.24361	1.37441	1.51896	1.67871	1.85526	2.05037	2.26601	2.50431	2.76765

0.019	1.01918	1.12639	1.24486	1.37578	1.52048	1.68039	1.85712	2.05243	2.26828	2.50682	2.77042
0.02	1.0202	1.12752	1.24611	1.37716	1.522	1.68207	1.85898	2.05448	2.27055	2.50933	2.77319
0.021	1.02122	1.12864	1.24735	1.37854	1.52353	1.68376	1.86084	2.05654	2.27282	2.51184	2.77597
0.022	1.02224	1.12977	1.2486	1.37992	1.52505	1.68544	1.8627	2.0586	2.2751	2.51435	2.77875
0.023	1.02327	1.1309	1.24985	1.38131	1.52658	1.68713	1.86457	2.06066	2.27738	2.51687	2.78153
0.024	1.02429	1.13204	1.2511	1.38269	1.52811	1.68882	1.86644	2.06273	2.27966	2.51939	2.78431
0.025	1.02532	1.13317	1.25236	1.38407	1.52964	1.69051	1.86831	2.06479	2.28194	2.52191	2.7871
0.026	1.02634	1.1343	1.25361	1.38546	1.53117	1.69221	1.87018	2.06686	2.28422	2.52443	2.78988
0.027	1.02737	1.13544	1.25487	1.38685	1.53271	1.6939	1.87205	2.06893	2.28651	2.52696	2.79268
0.028	1.0284	1.13658	1.25612	1.38824	1.53424	1.6956	1.87393	2.071	2.2888	2.52949	2.79547
0.029	1.02942	1.13771	1.25738	1.38963	1.53578	1.6973	1.8758	2.07308	2.29109	2.53202	2.79827
0.03	1.03045	1.13885	1.25864	1.39102	1.53732	1.699	1.87768	2.07515	2.29338	2.53455	2.80107
0.031	1.03149	1.13999	1.2599	1.39241	1.53886	1.7007	1.87956	2.07723	2.29568	2.53709	2.80387
0.032	1.03252	1.14113	1.26116	1.39381	1.5404	1.7024	1.88144	2.07931	2.29798	2.53963	2.80667
0.033	1.03355	1.14228	1.26243	1.3952	1.54194	1.70411	1.88333	2.08139	2.30028	2.54217	2.80948
0.034	1.03458	1.14342	1.26369	1.3966	1.54349	1.70582	1.88522	2.08348	2.30258	2.54472	2.81229
0.035	1.03562	1.14456	1.26496	1.398	1.54503	1.70752	1.8871	2.08556	2.30489	2.54726	2.81511
0.036	1.03666	1.14571	1.26622	1.3994	1.54658	1.70923	1.88899	2.08765	2.3072	2.54981	2.81792
0.037	1.03769	1.14686	1.26749	1.4008	1.54813	1.71095	1.89089	2.08974	2.3095	2.55236	2.82074
0.038	1.03873	1.14801	1.26876	1.4022	1.54968	1.71266	1.89278	2.09184	2.31182	2.55492	2.82356
0.039	1.03977	1.14915	1.27003	1.40361	1.55123	1.71438	1.89467	2.09393	2.31413	2.55748	2.82639
0.04	1.04081	1.1503	1.2713	1.40501	1.55279	1.71609	1.89657	2.09603	2.31645	2.56003	2.82922
0.041	1.04185	1.15146	1.27257	1.40642	1.55434	1.71781	1.89847	2.09813	2.31877	2.5626	2.83205
0.042	1.04289	1.15261	1.27385	1.40783	1.5559	1.71953	1.90037	2.10023	2.32109	2.56516	2.83488
0.043	1.04394	1.15376	1.27512	1.40924	1.55746	1.72125	1.90228	2.10233	2.32341	2.56773	2.83772
0.044	1.04498	1.15492	1.2764	1.41065	1.55902	1.72298	1.90418	2.10443	2.32574	2.5703	2.84056
0.045	1.04603	1.15607	1.27768	1.41206	1.56058	1.7247	1.90609	2.10654	2.32807	2.57287	2.8434
0.046	1.04707	1.15723	1.27896	1.41348	1.56214	1.72643	1.908	2.10865	2.3304	2.57545	2.84624
0.047	1.04812	1.15839	1.28024	1.41489	1.5637	1.72816	1.90991	2.11076	2.33273	2.57802	2.84909
0.048	1.04917	1.15955	1.28152	1.41631	1.56527	1.72989	1.91182	2.11287	2.33506	2.5806	2.85194
0.049	1.05022	1.16071	1.2828	1.41773	1.56684	1.73162	1.91373	2.11499	2.3374	2.58319	2.85479
0.05	1.05127	1.16187	1.28409	1.41915	1.56841	1.73336	1.91565	2.11711	2.33974	2.58577	2.85765
0.051	1.05232	1.16303	1.28537	1.42057	1.56998	1.73509	1.91757	2.11923	2.34208	2.58836	2.86051
0.052	1.05338	1.1642	1.28666	1.42199	1.57155	1.73683	1.91949	2.12135	2.34443	2.59095	2.86337
0.053	1.05443	1.16536	1.28795	1.42342	1.57312	1.73857	1.92141	2.12347	2.34677	2.59354	2.86624
0.054	1.05548	1.16653	1.28924	1.42484	1.5747	1.74031	1.92334	2.1256	2.34912	2.59614	2.8691
0.055	1.05654	1.1677	1.29053	1.42627	1.57628	1.74206	1.92526	2.12773	2.35147	2.59873	2.87198
0.056	1.0576	1.16887	1.29182	1.4277	1.57786	1.7438	1.92719	2.12986	2.35383	2.60134	2.87485
0.057	1.05866	1.17004	1.29311	1.42913	1.57944	1.74555	1.92912	2.13199	2.35618	2.60394	2.87772
0.058	1.05971	1.17121	1.29441	1.43056	1.58102	1.74729	1.93105	2.13412	2.35854	2.60654	2.8806
0.059	1.06078	1.17238	1.2957	1.43199	1.5826	1.74904	1.93298	2.13626	2.3609	2.60915	2.88349

0.06	1.06184	1.17355	1.297	1.43342	1.58419	1.7508	1.93492	2.1384	2.36327	2.61176	2.88637
0.061	1.0629	1.17473	1.2983	1.43486	1.58577	1.75255	1.93686	2.14054	2.36563	2.61438	2.88926
0.062	1.06396	1.1759	1.2996	1.4363	1.58736	1.7543	1.9388	2.14268	2.368	2.61699	2.89215
0.063	1.06503	1.17708	1.3009	1.43773	1.58895	1.75606	1.94074	2.14483	2.37037	2.61961	2.89504
0.064	1.06609	1.17826	1.3022	1.43917	1.59054	1.75782	1.94268	2.14698	2.37274	2.62223	2.89794
0.065	1.06716	1.17944	1.30351	1.44062	1.59213	1.75958	1.94463	2.14912	2.37512	2.62486	2.90084
0.066	1.06823	1.18062	1.30481	1.44206	1.59373	1.76134	1.94657	2.15128	2.37749	2.62748	2.90374
0.067	1.0693	1.1818	1.30612	1.4435	1.59532	1.7631	1.94852	2.15343	2.37987	2.63011	2.90665
0.068	1.07037	1.18298	1.30743	1.44495	1.59692	1.76487	1.95047	2.15559	2.38226	2.63275	2.90955
0.069	1.07144	1.18417	1.30874	1.44639	1.59852	1.76664	1.95243	2.15774	2.38464	2.63538	2.91247
0.07	1.07251	1.18535	1.31005	1.44784	1.60012	1.76841	1.95438	2.1599	2.38703	2.63802	2.91538
0.071	1.07358	1.18654	1.31136	1.44929	1.60172	1.77018	1.95634	2.16207	2.38942	2.64066	2.9183
0.072	1.07466	1.18772	1.31267	1.45074	1.60333	1.77195	1.9583	2.16423	2.39181	2.6433	2.92122
0.073	1.07573	1.18891	1.31398	1.4522	1.60493	1.77372	1.96026	2.1664	2.3942	2.64594	2.92414
0.074	1.07681	1.1901	1.3153	1.45365	1.60654	1.7755	1.96222	2.16857	2.3966	2.64859	2.92706
0.075	1.07788	1.19129	1.31662	1.4551	1.60815	1.77728	1.96418	2.17074	2.399	2.65124	2.92999
0.076	1.07896	1.19249	1.31793	1.45656	1.60976	1.77906	1.96615	2.17291	2.4014	2.6539	2.93292
0.077	1.08004	1.19368	1.31925	1.45802	1.61137	1.78084	1.96812	2.17508	2.4038	2.65655	2.93586
0.078	1.08112	1.19488	1.32057	1.45948	1.61298	1.78262	1.97009	2.17726	2.40621	2.65921	2.9388
0.079	1.0822	1.19607	1.3219	1.46094	1.6146	1.78441	1.97206	2.17944	2.40861	2.66187	2.94174
0.08	1.08329	1.19727	1.32322	1.4624	1.61621	1.78619	1.97404	2.18162	2.41103	2.66453	2.94468
0.081	1.08437	1.19847	1.32454	1.46387	1.61783	1.78798	1.97601	2.18381	2.41344	2.6672	2.94763
0.082	1.08546	1.19967	1.32587	1.46533	1.61945	1.78977	1.97799	2.18599	2.41585	2.66987	2.95057
0.083	1.08654	1.20087	1.3272	1.4668	1.62107	1.79156	1.97997	2.18818	2.41827	2.67254	2.95353
0.084	1.08763	1.20207	1.32853	1.46827	1.6227	1.79336	1.98195	2.19037	2.42069	2.67522	2.95648
0.085	1.08872	1.20327	1.32986	1.46974	1.62432	1.79515	1.98394	2.19256	2.42311	2.67789	2.95944
0.086	1.08981	1.20448	1.33119	1.47121	1.62595	1.79695	1.98592	2.19476	2.42554	2.68057	2.9624
0.087	1.0909	1.20568	1.33252	1.47268	1.62758	1.79875	1.98791	2.19695	2.42797	2.68325	2.96536
0.088	1.09199	1.20689	1.33385	1.47416	1.62921	1.80055	1.9899	2.19915	2.4304	2.68594	2.96833
0.089	1.09308	1.2081	1.33519	1.47563	1.63084	1.80235	1.99189	2.20136	2.43283	2.68863	2.9713
0.09	1.09417	1.2093	1.33652	1.47711	1.63247	1.80416	1.99389	2.20356	2.43526	2.69132	2.97427
0.091	1.09527	1.21051	1.33786	1.47859	1.6341	1.80596	1.99588	2.20576	2.4377	2.69401	2.97725
0.092	1.09636	1.21173	1.3392	1.48007	1.63574	1.80777	1.99788	2.20797	2.44014	2.69671	2.98023
0.093	1.09746	1.21294	1.34054	1.48155	1.63738	1.80958	1.99988	2.21018	2.44258	2.6994	2.98321
0.094	1.09856	1.21415	1.34188	1.48303	1.63902	1.81139	2.00188	2.21239	2.44503	2.70211	2.98619
0.095	1.09966	1.21537	1.34323	1.48452	1.64066	1.81321	2.00389	2.21461	2.44747	2.70481	2.98918
0.096	1.10076	1.21658	1.34457	1.48601	1.6423	1.81502	2.00589	2.21683	2.44992	2.70752	2.99217
0.097	1.10186	1.2178	1.34592	1.48749	1.64394	1.81684	2.0079	2.21904	2.45238	2.71023	2.99517
0.098	1.10296	1.21902	1.34727	1.48898	1.64559	1.81866	2.00991	2.22127	2.45483	2.71294	2.99816
0.099	1.10407	1.22024	1.34861	1.49047	1.64724	1.82048	2.01192	2.22349	2.45729	2.71565	3.00116
0.1	1.10517	1.22146	1.34996	1.49196	1.64889	1.8223	2.01394	2.22571	2.45975	2.71837	3.00417

0.101	1.10628	1.22268	1.35131	1.49346	1.65054	1.82412	2.01595	2.22794	2.46221	2.72109	3.00717
0.102	1.10738	1.22391	1.35267	1.49495	1.65219	1.82595	2.01797	2.23017	2.46467	2.72381	3.01018
0.103	1.10849	1.22513	1.35402	1.49645	1.65384	1.82778	2.01999	2.2324	2.46714	2.72654	3.01319
0.104	1.1096	1.22636	1.35538	1.49795	1.6555	1.82961	2.02201	2.23464	2.46961	2.72927	3.01621
0.105	1.11071	1.22759	1.35673	1.49945	1.65716	1.83144	2.02404	2.23687	2.47208	2.732	3.01922
0.106	1.11182	1.22881	1.35809	1.50095	1.65882	1.83327	2.02606	2.23911	2.47455	2.73473	3.02225
0.107	1.11293	1.23004	1.35945	1.50245	1.66048	1.83511	2.02809	2.24135	2.47703	2.73747	3.02527
0.108	1.11405	1.23127	1.36081	1.50396	1.66214	1.83694	2.03012	2.2436	2.47951	2.74021	3.0283
0.109	1.11516	1.23251	1.36217	1.50546	1.6638	1.83878	2.03215	2.24584	2.48199	2.74295	3.03133
0.11	1.11628	1.23374	1.36354	1.50697	1.66547	1.84062	2.03419	2.24809	2.48447	2.74569	3.03436
0.111	1.11739	1.23498	1.3649	1.50848	1.66714	1.84247	2.03622	2.25034	2.48696	2.74844	3.03739
0.112	1.11851	1.23621	1.36627	1.50999	1.6688	1.84431	2.03826	2.25259	2.48945	2.75119	3.04043
0.113	1.11963	1.23745	1.36764	1.5115	1.67047	1.84616	2.0403	2.25485	2.49194	2.75394	3.04348
0.114	1.12075	1.23869	1.369	1.51301	1.67215	1.84801	2.04234	2.2571	2.49443	2.7567	3.04652
0.115	1.12187	1.23993	1.37037	1.51453	1.67382	1.84986	2.04439	2.25936	2.49693	2.75946	3.04957
0.116	1.123	1.24117	1.37175	1.51604	1.6755	1.85171	2.04643	2.26162	2.49943	2.76222	3.05262
0.117	1.12412	1.24241	1.37312	1.51756	1.67717	1.85356	2.04848	2.26389	2.50193	2.76498	3.05567
0.118	1.12524	1.24365	1.37449	1.51908	1.67885	1.85542	2.05053	2.26615	2.50443	2.76775	3.05873
0.119	1.12637	1.2449	1.37587	1.5206	1.68053	1.85727	2.05259	2.26842	2.50694	2.77052	3.06179
0.12	1.1275	1.24614	1.37725	1.52212	1.68222	1.85913	2.05464	2.27069	2.50945	2.77329	3.06485
0.121	1.12862	1.24739	1.37862	1.52364	1.6839	1.86099	2.0567	2.27296	2.51196	2.77606	3.06792
0.122	1.12975	1.24864	1.38	1.52517	1.68558	1.86286	2.05876	2.27524	2.51447	2.77884	3.07099
0.123	1.13088	1.24989	1.38139	1.5267	1.68727	1.86472	2.06082	2.27752	2.51699	2.78162	3.07406
0.124	1.13202	1.25114	1.38277	1.52822	1.68896	1.86659	2.06288	2.2798	2.51951	2.78441	3.07714
0.125	1.13315	1.25239	1.38415	1.52975	1.69065	1.86846	2.06494	2.28208	2.52203	2.78719	3.08022
0.126	1.13428	1.25364	1.38554	1.53128	1.69234	1.87033	2.06701	2.28436	2.52455	2.78998	3.0833
0.127	1.13542	1.2549	1.38692	1.53282	1.69404	1.8722	2.06908	2.28665	2.52708	2.79277	3.08638
0.128	1.13655	1.25615	1.38831	1.53435	1.69573	1.87407	2.07115	2.28894	2.52961	2.79557	3.08947
0.129	1.13769	1.25741	1.3897	1.53589	1.69743	1.87595	2.07322	2.29123	2.53214	2.79836	3.09256
0.13	1.13883	1.25867	1.39109	1.53742	1.69913	1.87783	2.0753	2.29352	2.53467	2.80116	3.09566
0.131	1.13997	1.25993	1.39248	1.53896	1.70083	1.8797	2.07737	2.29582	2.53721	2.80397	3.09875
0.132	1.14111	1.26119	1.39388	1.5405	1.70253	1.88159	2.07945	2.29811	2.53975	2.80677	3.10185
0.133	1.14225	1.26245	1.39527	1.54205	1.70424	1.88347	2.08154	2.30041	2.54229	2.80958	3.10496
0.134	1.14339	1.26371	1.39667	1.54359	1.70594	1.88535	2.08362	2.30272	2.54483	2.81239	3.10806
0.135	1.14454	1.26498	1.39807	1.54513	1.70765	1.88724	2.0857	2.30502	2.54738	2.81521	3.11117
0.136	1.14568	1.26625	1.39947	1.54668	1.70936	1.88913	2.08779	2.30733	2.54993	2.81802	3.11429
0.137	1.14683	1.26751	1.40087	1.54823	1.71107	1.89102	2.08988	2.30964	2.55248	2.82084	3.1174
0.138	1.14798	1.26878	1.40227	1.54978	1.71278	1.89291	2.09197	2.31195	2.55504	2.82367	3.12052
0.139	1.14912	1.27005	1.40367	1.55133	1.7145	1.89481	2.09407	2.31426	2.55759	2.82649	3.12364
0.14	1.15027	1.27132	1.40508	1.55288	1.71621	1.89671	2.09616	2.31658	2.56015	2.82932	3.12677
0.141	1.15142	1.27259	1.40648	1.55444	1.71793	1.8986	2.09826	2.31889	2.56271	2.83215	3.1299

0.142	1.15258	1.27387	1.40789	1.55599	1.71965	1.9005	2.10036	2.32122	2.56528	2.83498	3.13303
0.143	1.15373	1.27514	1.4093	1.55755	1.72137	1.90241	2.10246	2.32354	2.56784	2.83782	3.13616
0.144	1.15488	1.27642	1.41071	1.55911	1.72309	1.90431	2.10457	2.32586	2.57041	2.84066	3.1393
0.145	1.15604	1.27769	1.41212	1.56067	1.72482	1.90622	2.10667	2.32819	2.57299	2.8435	3.14244
0.146	1.1572	1.27897	1.41354	1.56223	1.72655	1.90812	2.10878	2.33052	2.57556	2.84635	3.14559
0.147	1.15835	1.28025	1.41495	1.56379	1.72827	1.91003	2.11089	2.33285	2.57814	2.8492	3.14873
0.148	1.15951	1.28153	1.41637	1.56536	1.73	1.91195	2.113	2.33519	2.58072	2.85205	3.15188
0.149	1.16067	1.28282	1.41778	1.56693	1.73174	1.91386	2.11512	2.33752	2.5833	2.8549	3.15504
0.15	1.16183	1.2841	1.4192	1.56849	1.73347	1.91577	2.11724	2.33986	2.58589	2.85776	3.15819
0.151	1.163	1.28539	1.42062	1.57006	1.7352	1.91769	2.11935	2.34221	2.58847	2.86062	3.16135
0.152	1.16416	1.28667	1.42204	1.57164	1.73694	1.91961	2.12148	2.34455	2.59106	2.86348	3.16452
0.153	1.16532	1.28796	1.42347	1.57321	1.73868	1.92153	2.1236	2.3469	2.59366	2.86634	3.16768
0.154	1.16649	1.28925	1.42489	1.57478	1.74042	1.92346	2.12572	2.34924	2.59625	2.86921	3.17085
0.155	1.16766	1.29054	1.42632	1.57636	1.74216	1.92538	2.12785	2.3516	2.59885	2.87208	3.17402
0.156	1.16883	1.29183	1.42775	1.57794	1.7439	1.92731	2.12998	2.35395	2.60145	2.87496	3.1772
0.157	1.17	1.29312	1.42917	1.57952	1.74565	1.92924	2.13211	2.3563	2.60405	2.87783	3.18038
0.158	1.17117	1.29442	1.43061	1.5811	1.7474	1.93117	2.13425	2.35866	2.60666	2.88071	3.18356
0.159	1.17234	1.29571	1.43204	1.58268	1.74915	1.9331	2.13638	2.36102	2.60927	2.88359	3.18674
0.16	1.17351	1.29701	1.43347	1.58426	1.7509	1.93503	2.13852	2.36339	2.61188	2.88648	3.18993
0.161	1.17468	1.29831	1.4349	1.58585	1.75265	1.93697	2.14066	2.36575	2.61449	2.88937	3.19312
0.162	1.17586	1.2996	1.43634	1.58744	1.7544	1.93891	2.1428	2.36812	2.61711	2.89226	3.19632
0.163	1.17704	1.30091	1.43778	1.58902	1.75616	1.94085	2.14495	2.37049	2.61973	2.89515	3.19952
0.164	1.17821	1.30221	1.43922	1.59061	1.75792	1.94279	2.14709	2.37286	2.62235	2.89805	3.20272
0.165	1.17939	1.30351	1.44066	1.59221	1.75968	1.94474	2.14924	2.37523	2.62497	2.90095	3.20592
0.166	1.18057	1.30481	1.4421	1.5938	1.76144	1.94668	2.15139	2.37761	2.6276	2.90385	3.20913
0.167	1.18175	1.30612	1.44354	1.5954	1.7632	1.94863	2.15355	2.37999	2.63023	2.90676	3.21234
0.168	1.18294	1.30743	1.44499	1.59699	1.76496	1.95058	2.1557	2.38237	2.63286	2.90967	3.21556
0.169	1.18412	1.30873	1.44643	1.59859	1.76673	1.95253	2.15786	2.38476	2.63549	2.91258	3.21877
0.17	1.1853	1.31004	1.44788	1.60019	1.7685	1.95449	2.16002	2.38714	2.63813	2.91549	3.22199
0.171	1.18649	1.31136	1.44933	1.60179	1.77027	1.95644	2.16218	2.38953	2.64077	2.91841	3.22522
0.172	1.18768	1.31267	1.45078	1.60339	1.77204	1.9584	2.16434	2.39192	2.64341	2.92133	3.22844
0.173	1.18887	1.31398	1.45223	1.605	1.77381	1.96036	2.16651	2.39432	2.64606	2.92425	3.23167
0.174	1.19006	1.3153	1.45368	1.60661	1.77559	1.96232	2.16868	2.39671	2.64871	2.92718	3.23491
0.175	1.19125	1.31661	1.45514	1.60821	1.77737	1.96429	2.17085	2.39911	2.65136	2.93011	3.23814
0.176	1.19244	1.31793	1.4566	1.60982	1.77914	1.96625	2.17302	2.40151	2.65401	2.93304	3.24138
0.177	1.19363	1.31925	1.45805	1.61143	1.78092	1.96822	2.17519	2.40391	2.65666	2.93597	3.24463
0.178	1.19483	1.32057	1.45951	1.61305	1.78271	1.97019	2.17737	2.40632	2.65932	2.93891	3.24787
0.179	1.19602	1.32189	1.46097	1.61466	1.78449	1.97216	2.17955	2.40873	2.66198	2.94185	3.25112
0.18	1.19722	1.32321	1.46243	1.61628	1.78628	1.97414	2.18173	2.41114	2.66465	2.94479	3.25437
0.181	1.19842	1.32454	1.4639	1.61789	1.78806	1.97611	2.18391	2.41355	2.66731	2.94774	3.25763
0.182	1.19961	1.32586	1.46536	1.61951	1.78985	1.97809	2.1861	2.41597	2.66998	2.95069	3.26089

0.183	1.20081	1.32719	1.46683	1.62113	1.79164	1.98007	2.18829	2.41838	2.67265	2.95364	3.26415
0.184	1.20202	1.32852	1.4683	1.62276	1.79344	1.98205	2.19048	2.4208	2.67533	2.9566	3.26742
0.185	1.20322	1.32985	1.46977	1.62438	1.79523	1.98403	2.19267	2.42323	2.67801	2.95956	3.27069
0.186	1.20442	1.33118	1.47124	1.62601	1.79703	1.98602	2.19486	2.42565	2.68069	2.96252	3.27396
0.187	1.20563	1.33251	1.47271	1.62763	1.79883	1.98801	2.19706	2.42808	2.68337	2.96548	3.27723
0.188	1.20683	1.33384	1.47418	1.62926	1.80063	1.99	2.19926	2.43051	2.68605	2.96845	3.28051
0.189	1.20804	1.33518	1.47566	1.63089	1.80243	1.99199	2.20146	2.43294	2.68874	2.97142	3.2838
0.19	1.20925	1.33651	1.47713	1.63252	1.80423	1.99398	2.20366	2.43537	2.69143	2.97439	3.28708
0.191	1.21046	1.33785	1.47861	1.63416	1.80604	1.99598	2.20587	2.43781	2.69412	2.97737	3.29037
0.192	1.21167	1.33919	1.48009	1.63579	1.80785	1.99797	2.20808	2.44025	2.69682	2.98035	3.29366
0.193	1.21288	1.34053	1.48157	1.63743	1.80966	1.99997	2.21028	2.44269	2.69952	2.98333	3.29696
0.194	1.2141	1.34187	1.48306	1.63907	1.81147	2.00197	2.2125	2.44514	2.70222	2.98631	3.30026
0.195	1.21531	1.34321	1.48454	1.64071	1.81328	2.00398	2.21471	2.44758	2.70492	2.9893	3.30356
0.196	1.21653	1.34456	1.48603	1.64235	1.81509	2.00598	2.21693	2.45003	2.70763	2.99229	3.30686
0.197	1.21774	1.3459	1.48751	1.64399	1.81691	2.00799	2.21915	2.45248	2.71034	2.99529	3.31017
0.198	1.21896	1.34725	1.489	1.64564	1.81873	2.01	2.22137	2.45494	2.71305	2.99828	3.31348
0.199	1.22018	1.3486	1.49049	1.64729	1.82055	2.01201	2.22359	2.45739	2.71577	3.00128	3.3168
0.2	1.2214	1.34995	1.49198	1.64893	1.82237	2.01402	2.22581	2.45985	2.71848	3.00429	3.32012
0.201	1.22262	1.3513	1.49348	1.65058	1.82419	2.01604	2.22804	2.46231	2.7212	3.00729	3.32344
0.202	1.22385	1.35265	1.49497	1.65224	1.82602	2.01806	2.23027	2.46478	2.72393	3.0103	3.32676
0.203	1.22507	1.354	1.49647	1.65389	1.82785	2.02008	2.2325	2.46724	2.72665	3.01331	3.33009
0.204	1.2263	1.35536	1.49796	1.65554	1.82968	2.0221	2.23474	2.46971	2.72938	3.01633	3.33342
0.205	1.22753	1.35671	1.49946	1.6572	1.83151	2.02412	2.23697	2.47218	2.73211	3.01934	3.33676
0.206	1.22875	1.35807	1.50096	1.65886	1.83334	2.02615	2.23921	2.47466	2.73484	3.02237	3.3401
0.207	1.22998	1.35943	1.50246	1.66052	1.83517	2.02818	2.24145	2.47713	2.73758	3.02539	3.34344
0.208	1.23121	1.36079	1.50397	1.66218	1.83701	2.0302	2.24369	2.47961	2.74032	3.02842	3.34678
0.209	1.23244	1.36215	1.50547	1.66384	1.83885	2.03224	2.24594	2.48209	2.74306	3.03145	3.35013
0.21	1.23368	1.36351	1.50698	1.66551	1.84069	2.03427	2.24819	2.48458	2.74581	3.03448	3.35348
0.211	1.23491	1.36488	1.50849	1.66718	1.84253	2.03631	2.25044	2.48706	2.74855	3.03752	3.35684
0.212	1.23615	1.36624	1.51	1.66884	1.84437	2.03834	2.25269	2.48955	2.7513	3.04056	3.3602
0.213	1.23738	1.36761	1.51151	1.67051	1.84622	2.04038	2.25494	2.49204	2.75406	3.0436	3.36356
0.214	1.23862	1.36898	1.51302	1.67219	1.84807	2.04242	2.2572	2.49454	2.75681	3.04664	3.36693
0.215	1.23986	1.37035	1.51453	1.67386	1.84992	2.04447	2.25946	2.49703	2.75957	3.04969	3.37029
0.216	1.2411	1.37172	1.51605	1.67553	1.85177	2.04651	2.26172	2.49953	2.76233	3.05274	3.37367
0.217	1.24234	1.37309	1.51757	1.67721	1.85362	2.04856	2.26398	2.50203	2.7651	3.0558	3.37704
0.218	1.24359	1.37447	1.51909	1.67889	1.85548	2.05061	2.26625	2.50454	2.76786	3.05885	3.38042
0.219	1.24483	1.37584	1.52061	1.68057	1.85733	2.05266	2.26852	2.50704	2.77063	3.06191	3.3838
0.22	1.24608	1.37722	1.52213	1.68225	1.85919	2.05472	2.27079	2.50955	2.7734	3.06498	3.38719
0.221	1.24732	1.3786	1.52365	1.68393	1.86105	2.05677	2.27306	2.51206	2.77618	3.06804	3.39058
0.222	1.24857	1.37998	1.52517	1.68562	1.86291	2.05883	2.27533	2.51458	2.77896	3.07111	3.39397
0.223	1.24982	1.38136	1.5267	1.68731	1.86478	2.06089	2.27761	2.51709	2.78174	3.07419	3.39736

0.224	1.25107	1.38274	1.52823	1.68899	1.86664	2.06295	2.27989	2.51961	2.78452	3.07726	3.40076
0.225	1.25232	1.38412	1.52976	1.69068	1.86851	2.06502	2.28217	2.52213	2.78731	3.08034	3.40417
0.226	1.25358	1.38551	1.53129	1.69238	1.87038	2.06709	2.28445	2.52466	2.7901	3.08342	3.40757
0.227	1.25483	1.38689	1.53282	1.69407	1.87225	2.06915	2.28674	2.52718	2.79289	3.08651	3.41098
0.228	1.25609	1.38828	1.53435	1.69577	1.87413	2.07122	2.28903	2.52971	2.79568	3.0896	3.41439
0.229	1.25734	1.38967	1.53589	1.69746	1.876	2.0733	2.29132	2.53224	2.79848	3.09269	3.41781
0.23	1.2586	1.39106	1.53743	1.69916	1.87788	2.07537	2.29361	2.53478	2.80128	3.09578	3.42123
0.231	1.25986	1.39245	1.53896	1.70086	1.87976	2.07745	2.2959	2.53731	2.80408	3.09888	3.42465
0.232	1.26112	1.39385	1.5405	1.70256	1.88164	2.07953	2.2982	2.53985	2.80689	3.10198	3.42808
0.233	1.26238	1.39524	1.54205	1.70427	1.88352	2.08161	2.3005	2.54239	2.8097	3.10508	3.43151
0.234	1.26364	1.39664	1.54359	1.70597	1.88541	2.08369	2.3028	2.54494	2.81251	3.10819	3.43494
0.235	1.26491	1.39803	1.54513	1.70768	1.88729	2.08578	2.30511	2.54748	2.81532	3.1113	3.43838
0.236	1.26617	1.39943	1.54668	1.70939	1.88918	2.08786	2.30741	2.55003	2.81814	3.11441	3.44182
0.237	1.26744	1.40083	1.54823	1.7111	1.89107	2.08995	2.30972	2.55258	2.82096	3.11753	3.44526
0.238	1.26871	1.40223	1.54978	1.71281	1.89297	2.09204	2.31203	2.55514	2.82378	3.12065	3.44871
0.239	1.26998	1.40364	1.55133	1.71452	1.89486	2.09414	2.31435	2.55769	2.82661	3.12377	3.45216
0.24	1.27125	1.40504	1.55288	1.71624	1.89676	2.09623	2.31666	2.56025	2.82943	3.1269	3.45561
0.241	1.27252	1.40645	1.55443	1.71796	1.89865	2.09833	2.31898	2.56281	2.83226	3.13003	3.45907
0.242	1.27379	1.40786	1.55599	1.71968	1.90055	2.10043	2.3213	2.56538	2.8351	3.13316	3.46253
0.243	1.27507	1.40926	1.55755	1.7214	1.90246	2.10253	2.32363	2.56795	2.83794	3.13629	3.466
0.244	1.27634	1.41067	1.5591	1.72312	1.90436	2.10464	2.32595	2.57052	2.84077	3.13943	3.46946
0.245	1.27762	1.41209	1.56066	1.72484	1.90626	2.10674	2.32828	2.57309	2.84362	3.14257	3.47293
0.246	1.2789	1.4135	1.56223	1.72657	1.90817	2.10885	2.33061	2.57566	2.84646	3.14571	3.47641
0.247	1.28018	1.41491	1.56379	1.7283	1.91008	2.11096	2.33294	2.57824	2.84931	3.14886	3.47989
0.248	1.28146	1.41633	1.56535	1.73003	1.91199	2.11307	2.33527	2.58082	2.85216	3.15201	3.48337
0.249	1.28274	1.41775	1.56692	1.73176	1.91391	2.11519	2.33761	2.5834	2.85501	3.15517	3.48685
0.25	1.28403	1.41916	1.56849	1.73349	1.91582	2.1173	2.33995	2.58599	2.85787	3.15832	3.49034
0.251	1.28531	1.42058	1.57006	1.73522	1.91774	2.11942	2.34229	2.58857	2.86073	3.16148	3.49384
0.252	1.2866	1.42201	1.57163	1.73696	1.91966	2.12154	2.34463	2.59116	2.86359	3.16465	3.49733
0.253	1.28788	1.42343	1.5732	1.7387	1.92158	2.12366	2.34698	2.59376	2.86646	3.16781	3.50083
0.254	1.28917	1.42485	1.57477	1.74044	1.9235	2.12579	2.34933	2.59635	2.86933	3.17098	3.50433
0.255	1.29046	1.42628	1.57635	1.74218	1.92543	2.12792	2.35168	2.59895	2.8722	3.17415	3.50784
0.256	1.29175	1.42771	1.57793	1.74392	1.92735	2.13005	2.35403	2.60155	2.87507	3.17733	3.51135
0.257	1.29305	1.42913	1.57951	1.74567	1.92928	2.13218	2.35639	2.60415	2.87795	3.18051	3.51486
0.258	1.29434	1.43056	1.58109	1.74742	1.93121	2.13431	2.35875	2.60676	2.88083	3.18369	3.51838
0.259	1.29563	1.43199	1.58267	1.74916	1.93314	2.13645	2.36111	2.60937	2.88371	3.18688	3.5219
0.26	1.29693	1.43343	1.58425	1.75091	1.93508	2.13858	2.36347	2.61198	2.8866	3.19007	3.52542
0.261	1.29823	1.43486	1.58584	1.75267	1.93701	2.14072	2.36583	2.61459	2.88948	3.19326	3.52895
0.262	1.29953	1.4363	1.58742	1.75442	1.93895	2.14287	2.3682	2.61721	2.89237	3.19645	3.53248
0.263	1.30083	1.43773	1.58901	1.75618	1.94089	2.14501	2.37057	2.61983	2.89527	3.19965	3.53601
0.264	1.30213	1.43917	1.5906	1.75793	1.94283	2.14716	2.37294	2.62245	2.89817	3.20285	3.53955

0.265	1.30343	1.44061	1.59219	1.75969	1.94478	2.14931	2.37532	2.62507	2.90106	3.20606	3.54309
0.266	1.30474	1.44205	1.59379	1.76145	1.94672	2.15146	2.37769	2.6277	2.90397	3.20926	3.54664
0.267	1.30604	1.4435	1.59538	1.76321	1.94867	2.15361	2.38007	2.63033	2.90687	3.21247	3.55019
0.268	1.30735	1.44494	1.59698	1.76498	1.95062	2.15576	2.38245	2.63296	2.90978	3.21569	3.55374
0.269	1.30866	1.44639	1.59858	1.76675	1.95257	2.15792	2.38484	2.63559	2.91269	3.21891	3.55729
0.27	1.30996	1.44783	1.60018	1.76851	1.95453	2.16008	2.38722	2.63823	2.91561	3.22213	3.56085
0.271	1.31128	1.44928	1.60178	1.77028	1.95648	2.16224	2.38961	2.64087	2.91852	3.22535	3.56442
0.272	1.31259	1.45073	1.60338	1.77205	1.95844	2.1644	2.392	2.64351	2.92144	3.22858	3.56798
0.273	1.3139	1.45218	1.60498	1.77383	1.9604	2.16657	2.3944	2.64616	2.92437	3.23181	3.57155
0.274	1.31521	1.45364	1.60659	1.7756	1.96236	2.16874	2.39679	2.6488	2.92729	3.23504	3.57512
0.275	1.31653	1.45509	1.6082	1.77738	1.96433	2.17091	2.39919	2.65145	2.93022	3.23828	3.5787
0.276	1.31785	1.45655	1.60981	1.77916	1.96629	2.17308	2.40159	2.65411	2.93315	3.24152	3.58228
0.277	1.31917	1.45801	1.61142	1.78094	1.96826	2.17525	2.40399	2.65676	2.93609	3.24476	3.58587
0.278	1.32049	1.45946	1.61303	1.78272	1.97023	2.17743	2.4064	2.65942	2.93903	3.24801	3.58945
0.279	1.32181	1.46092	1.61464	1.7845	1.9722	2.17961	2.40881	2.66208	2.94197	3.25126	3.59304
0.28	1.32313	1.46239	1.61626	1.78629	1.97417	2.18179	2.41122	2.66475	2.94491	3.25451	3.59664
0.281	1.32445	1.46385	1.61788	1.78808	1.97615	2.18397	2.41363	2.66741	2.94786	3.25777	3.60024
0.282	1.32578	1.46531	1.6195	1.78986	1.97813	2.18616	2.41605	2.67008	2.95081	3.26103	3.60384
0.283	1.32711	1.46678	1.62112	1.79166	1.9801	2.18835	2.41846	2.67275	2.95376	3.26429	3.60745
0.284	1.32843	1.46825	1.62274	1.79345	1.98209	2.19054	2.42088	2.67543	2.95671	3.26755	3.61106
0.285	1.32976	1.46972	1.62436	1.79524	1.98407	2.19273	2.4233	2.6781	2.95967	3.27082	3.61467
0.286	1.33109	1.47119	1.62599	1.79704	1.98605	2.19492	2.42573	2.68078	2.96263	3.2741	3.61828
0.287	1.33242	1.47266	1.62761	1.79884	1.98804	2.19712	2.42816	2.68347	2.9656	3.27737	3.6219
0.288	1.33376	1.47413	1.62924	1.80064	1.99003	2.19932	2.43059	2.68615	2.96857	3.28065	3.62553
0.289	1.33509	1.47561	1.63087	1.80244	1.99202	2.20152	2.43302	2.68884	2.97154	3.28393	3.62916
0.29	1.33643	1.47708	1.6325	1.80424	1.99402	2.20372	2.43545	2.69153	2.97451	3.28722	3.63279
0.291	1.33776	1.47856	1.63414	1.80605	1.99601	2.20592	2.43789	2.69422	2.97748	3.29051	3.63642
0.292	1.3391	1.48004	1.63577	1.80785	1.99801	2.20813	2.44033	2.69692	2.98046	3.2938	3.64006
0.293	1.34044	1.48152	1.63741	1.80966	2.00001	2.21034	2.44277	2.69962	2.98345	3.2971	3.6437
0.294	1.34178	1.483	1.63905	1.81147	2.00201	2.21255	2.44521	2.70232	2.98643	3.30039	3.64735
0.295	1.34313	1.48449	1.64069	1.81329	2.00401	2.21477	2.44766	2.70502	2.98942	3.3037	3.651
0.296	1.34447	1.48597	1.64233	1.8151	2.00602	2.21698	2.45011	2.70773	2.99241	3.307	3.65465
0.297	1.34582	1.48746	1.64397	1.81692	2.00802	2.2192	2.45256	2.71044	2.9954	3.31031	3.65831
0.298	1.34716	1.48895	1.64562	1.81874	2.01003	2.22142	2.45502	2.71315	2.9984	3.31362	3.66197
0.299	1.34851	1.49044	1.64726	1.82055	2.01204	2.22364	2.45747	2.71586	3.0014	3.31694	3.66563
0.3	1.34986	1.49193	1.64891	1.82238	2.01406	2.22587	2.45993	2.71858	3.0044	3.32026	3.6693
0.301	1.35121	1.49342	1.65056	1.8242	2.01607	2.2281	2.46239	2.7213	3.00741	3.32358	3.67297
0.302	1.35256	1.49492	1.65221	1.82603	2.01809	2.23033	2.46486	2.72402	3.01042	3.3269	3.67664
0.303	1.35391	1.49641	1.65387	1.82785	2.02011	2.23256	2.46732	2.72675	3.01343	3.33023	3.68032
0.304	1.35527	1.49791	1.65552	1.82968	2.02213	2.23479	2.46979	2.72948	3.01645	3.33356	3.684
0.305	1.35663	1.49941	1.65718	1.83151	2.02415	2.23703	2.47226	2.73221	3.01946	3.3369	3.68769

0.306	1.35798	1.50091	1.65884	1.83334	2.02618	2.23927	2.47474	2.73494	3.02248	3.34024	3.69138
0.307	1.35934	1.50241	1.6605	1.83518	2.02821	2.24151	2.47721	2.73768	3.02551	3.34358	3.69507
0.308	1.3607	1.50391	1.66216	1.83701	2.03023	2.24375	2.47969	2.74042	3.02854	3.34693	3.69877
0.309	1.36206	1.50542	1.66382	1.83885	2.03227	2.24599	2.48217	2.74316	3.03157	3.35027	3.70247
0.31	1.36343	1.50692	1.66548	1.84069	2.0343	2.24824	2.48465	2.7459	3.0346	3.35363	3.70617
0.311	1.36479	1.50843	1.66715	1.84253	2.03634	2.25049	2.48714	2.74865	3.03764	3.35698	3.70988
0.312	1.36615	1.50994	1.66882	1.84438	2.03837	2.25274	2.48963	2.7514	3.04067	3.36034	3.71359
0.313	1.36752	1.51145	1.67049	1.84622	2.04041	2.255	2.49212	2.75415	3.04372	3.3637	3.71731
0.314	1.36889	1.51296	1.67216	1.84807	2.04245	2.25725	2.49461	2.75691	3.04676	3.36707	3.72103
0.315	1.37026	1.51448	1.67383	1.84992	2.0445	2.25951	2.49711	2.75967	3.04981	3.37044	3.72475
0.316	1.37163	1.51599	1.67551	1.85177	2.04654	2.26177	2.49961	2.76243	3.05286	3.37381	3.72848
0.317	1.373	1.51751	1.67718	1.85362	2.04859	2.26403	2.50211	2.76519	3.05592	3.37718	3.73221
0.318	1.37438	1.51903	1.67886	1.85548	2.05064	2.2663	2.50461	2.76796	3.05897	3.38056	3.73594
0.319	1.37575	1.52055	1.68054	1.85733	2.05269	2.26857	2.50712	2.77073	3.06203	3.38395	3.73968
0.32	1.37713	1.52207	1.68222	1.85919	2.05475	2.27084	2.50963	2.7735	3.0651	3.38733	3.74342
0.321	1.37851	1.52359	1.68391	1.86105	2.0568	2.27311	2.51214	2.77628	3.06817	3.39072	3.74717
0.322	1.37988	1.52512	1.68559	1.86292	2.05886	2.27538	2.51465	2.77905	3.07123	3.39411	3.75092
0.323	1.38127	1.52664	1.68728	1.86478	2.06092	2.27766	2.51717	2.78183	3.07431	3.39751	3.75467
0.324	1.38265	1.52817	1.68897	1.86665	2.06298	2.27994	2.51969	2.78462	3.07738	3.40091	3.75843
0.325	1.38403	1.5297	1.69066	1.86851	2.06505	2.28222	2.52221	2.7874	3.08046	3.40431	3.76219
0.326	1.38542	1.53123	1.69235	1.87038	2.06711	2.2845	2.52473	2.79019	3.08354	3.40772	3.76595
0.327	1.3868	1.53276	1.69404	1.87225	2.06918	2.28679	2.52726	2.79298	3.08663	3.41113	3.76972
0.328	1.38819	1.53429	1.69574	1.87413	2.07125	2.28908	2.52979	2.79578	3.08972	3.41454	3.77349
0.329	1.38958	1.53583	1.69743	1.876	2.07332	2.29137	2.53232	2.79858	3.09281	3.41796	3.77726
0.33	1.39097	1.53737	1.69913	1.87788	2.0754	2.29366	2.53485	2.80138	3.0959	3.42138	3.78104
0.331	1.39236	1.5389	1.70083	1.87976	2.07747	2.29596	2.53739	2.80418	3.099	3.4248	3.78483
0.332	1.39375	1.54044	1.70253	1.88164	2.07955	2.29825	2.53993	2.80699	3.1021	3.42822	3.78861
0.333	1.39515	1.54199	1.70424	1.88352	2.08163	2.30055	2.54247	2.80979	3.10521	3.43165	3.7924
0.334	1.39654	1.54353	1.70594	1.88541	2.08372	2.30285	2.54501	2.81261	3.10831	3.43509	3.7962
0.335	1.39794	1.54507	1.70765	1.88729	2.0858	2.30516	2.54756	2.81542	3.11142	3.43852	3.8
0.336	1.39934	1.54662	1.70936	1.88918	2.08789	2.30746	2.55011	2.81824	3.11454	3.44197	3.8038
0.337	1.40074	1.54817	1.71107	1.89107	2.08998	2.30977	2.55266	2.82106	3.11765	3.44541	3.8076
0.338	1.40214	1.54971	1.71278	1.89296	2.09207	2.31208	2.55521	2.82388	3.12077	3.44886	3.81141
0.339	1.40354	1.55127	1.71449	1.89486	2.09416	2.3144	2.55777	2.8267	3.12389	3.45231	3.81523
0.34	1.40495	1.55282	1.71621	1.89675	2.09626	2.31671	2.56033	2.82953	3.12702	3.45576	3.81904
0.341	1.40635	1.55437	1.71793	1.89865	2.09835	2.31903	2.56289	2.83236	3.13015	3.45922	3.82286
0.342	1.40776	1.55593	1.71964	1.90055	2.10045	2.32135	2.56545	2.8352	3.13328	3.46268	3.82669
0.343	1.40917	1.55748	1.72136	1.90245	2.10256	2.32367	2.56802	2.83803	3.13641	3.46614	3.83052
0.344	1.41058	1.55904	1.72309	1.90436	2.10466	2.326	2.57059	2.84087	3.13955	3.46961	3.83435
0.345	1.41199	1.5606	1.72481	1.90626	2.10676	2.32833	2.57316	2.84372	3.14269	3.47308	3.83819
0.346	1.4134	1.56216	1.72654	1.90817	2.10887	2.33066	2.57574	2.84656	3.14584	3.47656	3.84203

0.347	1.41482	1.56373	1.72826	1.91008	2.11098	2.33299	2.57831	2.84941	3.14899	3.48004	3.84587
0.348	1.41623	1.56529	1.72999	1.91199	2.11309	2.33532	2.58089	2.85226	3.15214	3.48352	3.84972
0.349	1.41765	1.56686	1.73172	1.9139	2.11521	2.33766	2.58347	2.85511	3.15529	3.487	3.85357
0.35	1.41907	1.56842	1.73346	1.91582	2.11733	2.34	2.58606	2.85797	3.15845	3.49049	3.85743
0.351	1.42049	1.56999	1.73519	1.91773	2.11944	2.34234	2.58865	2.86083	3.16161	3.49398	3.86128
0.352	1.42191	1.57156	1.73693	1.91965	2.12156	2.34468	2.59124	2.86369	3.16477	3.49748	3.86515
0.353	1.42333	1.57314	1.73867	1.92157	2.12369	2.34703	2.59383	2.86656	3.16794	3.50098	3.86902
0.354	1.42476	1.57471	1.7404	1.9235	2.12581	2.34938	2.59643	2.86943	3.17111	3.50448	3.87289
0.355	1.42618	1.57629	1.74215	1.92542	2.12794	2.35173	2.59902	2.8723	3.17428	3.50799	3.87676
0.356	1.42761	1.57786	1.74389	1.92735	2.13007	2.35408	2.60162	2.87517	3.17745	3.5115	3.88064
0.357	1.42904	1.57944	1.74563	1.92927	2.1322	2.35644	2.60423	2.87805	3.18063	3.51501	3.88452
0.358	1.43047	1.58102	1.74738	1.93121	2.13433	2.35879	2.60683	2.88093	3.18382	3.51853	3.88841
0.359	1.4319	1.5826	1.74913	1.93314	2.13647	2.36115	2.60944	2.88381	3.187	3.52205	3.8923
0.36	1.43333	1.58419	1.75088	1.93507	2.13861	2.36352	2.61205	2.88669	3.19019	3.52557	3.89619
0.361	1.43476	1.58577	1.75263	1.93701	2.14075	2.36588	2.61466	2.88958	3.19338	3.5291	3.90009
0.362	1.4362	1.58736	1.75438	1.93895	2.14289	2.36825	2.61728	2.89247	3.19658	3.53263	3.90399
0.363	1.43764	1.58895	1.75614	1.94089	2.14503	2.37062	2.6199	2.89537	3.19977	3.53617	3.9079
0.364	1.43907	1.59054	1.7579	1.94283	2.14718	2.37299	2.62252	2.89826	3.20298	3.5397	3.91181
0.365	1.44051	1.59213	1.75966	1.94477	2.14933	2.37536	2.62514	2.90116	3.20618	3.54324	3.91572
0.366	1.44196	1.59372	1.76142	1.94672	2.15148	2.37774	2.62777	2.90407	3.20939	3.54679	3.91964
0.367	1.4434	1.59532	1.76318	1.94867	2.15363	2.38012	2.6304	2.90697	3.2126	3.55034	3.92356
0.368	1.44484	1.59691	1.76494	1.95061	2.15578	2.3825	2.63303	2.90988	3.21581	3.55389	3.92749
0.369	1.44629	1.59851	1.76671	1.95257	2.15794	2.38488	2.63567	2.91279	3.21903	3.55745	3.93142
0.37	1.44773	1.60011	1.76848	1.95452	2.1601	2.38727	2.6383	2.91571	3.22225	3.56101	3.93535
0.371	1.44918	1.60171	1.77025	1.95648	2.16226	2.38966	2.64094	2.91862	3.22548	3.56457	3.93929
0.372	1.45063	1.60331	1.77202	1.95843	2.16442	2.39205	2.64359	2.92154	3.2287	3.56813	3.94323
0.373	1.45208	1.60492	1.77379	1.96039	2.16659	2.39444	2.64623	2.92447	3.23193	3.5717	3.94717
0.374	1.45354	1.60652	1.77556	1.96235	2.16876	2.39684	2.64888	2.92739	3.23517	3.57528	3.95112
0.375	1.45499	1.60813	1.77734	1.96432	2.17093	2.39924	2.65153	2.93032	3.2384	3.57885	3.95508
0.376	1.45645	1.60974	1.77912	1.96628	2.1731	2.40164	2.65418	2.93325	3.24164	3.58244	3.95903
0.377	1.4579	1.61135	1.7809	1.96825	2.17527	2.40404	2.65684	2.93619	3.24489	3.58602	3.96299
0.378	1.45936	1.61296	1.78268	1.97022	2.17745	2.40645	2.65949	2.93913	3.24813	3.58961	3.96696
0.379	1.46082	1.61457	1.78446	1.97219	2.17963	2.40885	2.66216	2.94207	3.25138	3.5932	3.97093
0.38	1.46228	1.61619	1.78625	1.97416	2.18181	2.41126	2.66482	2.94501	3.25464	3.59679	3.9749
0.381	1.46375	1.61781	1.78804	1.97614	2.18399	2.41368	2.66749	2.94796	3.25789	3.60039	3.97888
0.382	1.46521	1.61943	1.78983	1.97812	2.18618	2.41609	2.67015	2.95091	3.26115	3.604	3.98286
0.383	1.46668	1.62105	1.79162	1.9801	2.18837	2.41851	2.67283	2.95386	3.26442	3.6076	3.98684
0.384	1.46815	1.62267	1.79341	1.98208	2.19056	2.42093	2.6755	2.95681	3.26768	3.61121	3.99083
0.385	1.46961	1.62429	1.7952	1.98406	2.19275	2.42335	2.67818	2.95977	3.27095	3.61482	3.99483
0.386	1.47108	1.62592	1.797	1.98604	2.19494	2.42578	2.68086	2.96273	3.27422	3.61844	3.99882
0.387	1.47256	1.62754	1.7988	1.98803	2.19714	2.4282	2.68354	2.9657	3.2775	3.62206	4.00282

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0.388	1.47403	1.62917	1.8006	1.99002	2.19934	2.43063	2.68622	2.96867	3.28078	3.62568	4.00683
0.389	1.4755	1.6308	1.8024	1.99201	2.20154	2.43306	2.68891	2.97164	3.28406	3.62931	4.01084
0.39	1.47698	1.63243	1.8042	1.99401	2.20374	2.4355	2.6916	2.97461	3.28735	3.63294	4.01485
0.391	1.47846	1.63407	1.80601	1.996	2.20594	2.43794	2.69429	2.97758	3.29064	3.63658	4.01887
0.392	1.47994	1.6357	1.80781	1.998	2.20815	2.44037	2.69699	2.98056	3.29393	3.64022	4.02289
0.393	1.48142	1.63734	1.80962	2	2.21036	2.44282	2.69969	2.98355	3.29722	3.64386	4.02691
0.394	1.4829	1.63898	1.81143	2.002	2.21257	2.44526	2.70239	2.98653	3.30052	3.6475	4.03094
0.395	1.48438	1.64062	1.81325	2.004	2.21478	2.44771	2.70509	2.98952	3.30383	3.65115	4.03497
0.396	1.48587	1.64226	1.81506	2.00601	2.217	2.45016	2.7078	2.99251	3.30713	3.65481	4.03901
0.397	1.48736	1.6439	1.81688	2.00801	2.21922	2.45261	2.71051	2.9955	3.31044	3.65846	4.04305
0.398	1.48884	1.64555	1.81869	2.01002	2.22144	2.45506	2.71322	2.9985	3.31375	3.66212	4.0471
0.399	1.49033	1.64719	1.82051	2.01203	2.22366	2.45752	2.71594	3.0015	3.31707	3.66579	4.05115
0.4	1.49182	1.64884	1.82234	2.01405	2.22589	2.45998	2.71865	3.0045	3.32039	3.66945	4.0552
0.401	1.49332	1.65049	1.82416	2.01606	2.22811	2.46244	2.72137	3.00751	3.32371	3.67313	4.05926
0.402	1.49481	1.65214	1.82598	2.01808	2.23034	2.4649	2.7241	3.01052	3.32703	3.6768	4.06332
0.403	1.49631	1.65379	1.82781	2.0201	2.23257	2.46737	2.72682	3.01353	3.33036	3.68048	4.06738
0.404	1.4978	1.65545	1.82964	2.02212	2.23481	2.46984	2.72955	3.01655	3.33369	3.68416	4.07145
0.405	1.4993	1.6571	1.83147	2.02414	2.23704	2.47231	2.73228	3.01956	3.33703	3.68785	4.07553
0.406	1.5008	1.65876	1.8333	2.02617	2.23928	2.47478	2.73501	3.02259	3.34037	3.69154	4.0796
0.407	1.5023	1.66042	1.83514	2.02819	2.24152	2.47726	2.73775	3.02561	3.34371	3.69523	4.08369
0.408	1.50381	1.66208	1.83697	2.03022	2.24377	2.47974	2.74049	3.02864	3.34706	3.69893	4.08777
0.409	1.50531	1.66375	1.83881	2.03225	2.24601	2.48222	2.74323	3.03167	3.3504	3.70263	4.09186
0.41	1.50682	1.66541	1.84065	2.03429	2.24826	2.4847	2.74598	3.0347	3.35376	3.70633	4.09596
0.411	1.50833	1.66708	1.84249	2.03632	2.25051	2.48719	2.74872	3.03774	3.35711	3.71004	4.10005
0.412	1.50983	1.66875	1.84434	2.03836	2.25276	2.48967	2.75147	3.04078	3.36047	3.71375	4.10416
0.413	1.51135	1.67042	1.84618	2.0404	2.25501	2.49217	2.75423	3.04382	3.36383	3.71747	4.10826
0.414	1.51286	1.67209	1.84803	2.04244	2.25727	2.49466	2.75698	3.04686	3.3672	3.72119	4.11237
0.415	1.51437	1.67376	1.84988	2.04448	2.25953	2.49715	2.75974	3.04991	3.37057	3.72491	4.11649
0.416	1.51589	1.67543	1.85173	2.04653	2.26179	2.49965	2.7625	3.05296	3.37394	3.72864	4.12061
0.417	1.5174	1.67711	1.85358	2.04858	2.26405	2.50215	2.76527	3.05602	3.37732	3.73237	4.12473
0.418	1.51892	1.67879	1.85544	2.05063	2.26632	2.50466	2.76803	3.05908	3.38069	3.7361	4.12885
0.419	1.52044	1.68047	1.85729	2.05268	2.26858	2.50716	2.7708	3.06214	3.38408	3.73984	4.13299
0.42	1.52196	1.68215	1.85915	2.05473	2.27085	2.50967	2.77357	3.0652	3.38746	3.74358	4.13712
0.421	1.52348	1.68383	1.86101	2.05679	2.27313	2.51218	2.77635	3.06827	3.39085	3.74733	4.14126
0.422	1.52501	1.68552	1.86287	2.05885	2.2754	2.5147	2.77913	3.07134	3.39424	3.75108	4.1454
0.423	1.52653	1.6872	1.86474	2.06091	2.27768	2.51721	2.78191	3.07441	3.39764	3.75483	4.14955
0.424	1.52806	1.68889	1.8666	2.06297	2.27996	2.51973	2.78469	3.07749	3.40104	3.75859	4.1537
0.425	1.52959	1.69058	1.86847	2.06503	2.28224	2.52225	2.78748	3.08056	3.40444	3.76235	4.15786
0.426	1.53112	1.69227	1.87034	2.0671	2.28452	2.52478	2.79027	3.08365	3.40785	3.76611	4.16202
0.427	1.53265	1.69397	1.87221	2.06917	2.28681	2.5273	2.79306	3.08673	3.41126	3.76988	4.16618
0.428	1.53419	1.69566	1.87408	2.07124	2.28909	2.52983	2.79585	3.08982	3.41467	3.77365	4.17035

0.429	1.53572	1.69736	1.87596	2.07331	2.29138	2.53236	2.79865	3.09291	3.41809	3.77743	4.17452
0.43	1.53726	1.69906	1.87783	2.07538	2.29368	2.5349	2.80145	3.09601	3.42151	3.78121	4.1787
0.431	1.5388	1.70075	1.87971	2.07746	2.29597	2.53743	2.80425	3.0991	3.42493	3.78499	4.18288
0.432	1.54034	1.70246	1.88159	2.07954	2.29827	2.53997	2.80706	3.1022	3.42836	3.78878	4.18706
0.433	1.54188	1.70416	1.88348	2.08162	2.30057	2.54251	2.80987	3.10531	3.43179	3.79257	4.19125
0.434	1.54342	1.70586	1.88536	2.0837	2.30287	2.54506	2.81268	3.10842	3.43522	3.79636	4.19545
0.435	1.54496	1.70757	1.88725	2.08579	2.30517	2.5476	2.81549	3.11153	3.43866	3.80016	4.19965
0.436	1.54651	1.70928	1.88914	2.08787	2.30748	2.55015	2.81831	3.11464	3.4421	3.80396	4.20385
0.437	1.54806	1.71099	1.89103	2.08996	2.30979	2.5527	2.82113	3.11775	3.44554	3.80777	4.20805
0.438	1.5496	1.7127	1.89292	2.09205	2.3121	2.55526	2.82395	3.12087	3.44899	3.81158	4.21226
0.439	1.55116	1.71442	1.89481	2.09415	2.31441	2.55781	2.82678	3.124	3.45244	3.81539	4.21648
0.44	1.55271	1.71613	1.89671	2.09624	2.31673	2.56037	2.82961	3.12712	3.45589	3.81921	4.2207
0.441	1.55426	1.71785	1.89861	2.09834	2.31905	2.56293	2.83244	3.13025	3.45935	3.82303	4.22492
0.442	1.55582	1.71957	1.9005	2.10044	2.32137	2.5655	2.83527	3.13338	3.46281	3.82685	4.22915
0.443	1.55737	1.72129	1.90241	2.10254	2.32369	2.56806	2.83811	3.13652	3.46628	3.83068	4.23338
0.444	1.55893	1.72301	1.90431	2.10464	2.32601	2.57063	2.84095	3.13966	3.46975	3.83452	4.23761
0.445	1.56049	1.72473	1.90622	2.10675	2.32834	2.57321	2.84379	3.1428	3.47322	3.83835	4.24185
0.446	1.56205	1.72646	1.90812	2.10886	2.33067	2.57578	2.84663	3.14594	3.47669	3.84219	4.2461
0.447	1.56361	1.72819	1.91003	2.11097	2.333	2.57836	2.84948	3.14909	3.48017	3.84604	4.25034
0.448	1.56518	1.72992	1.91194	2.11308	2.33534	2.58094	2.85233	3.15224	3.48365	3.84988	4.2546
0.449	1.56674	1.73165	1.91386	2.11519	2.33767	2.58352	2.85519	3.15539	3.48714	3.85374	4.25885
0.45	1.56831	1.73338	1.91577	2.11731	2.34001	2.5861	2.85804	3.15855	3.49063	3.85759	4.26311
0.451	1.56988	1.73511	1.91769	2.11943	2.34235	2.58869	2.8609	3.16171	3.49412	3.86145	4.26738
0.452	1.57145	1.73685	1.91961	2.12155	2.3447	2.59128	2.86377	3.16487	3.49762	3.86532	4.27165
0.453	1.57302	1.73859	1.92153	2.12367	2.34704	2.59387	2.86663	3.16804	3.50111	3.86918	4.27592
0.454	1.5746	1.74033	1.92345	2.1258	2.34939	2.59647	2.8695	3.17121	3.50462	3.87305	4.2802
0.455	1.57617	1.74207	1.92537	2.12792	2.35174	2.59907	2.87237	3.17438	3.50812	3.87693	4.28448
0.456	1.57775	1.74381	1.9273	2.13005	2.3541	2.60167	2.87524	3.17756	3.51163	3.88081	4.28877
0.457	1.57933	1.74555	1.92923	2.13218	2.35645	2.60427	2.87812	3.18074	3.51515	3.88469	4.29306
0.458	1.58091	1.7473	1.93116	2.13432	2.35881	2.60688	2.881	3.18392	3.51866	3.88858	4.29736
0.459	1.58249	1.74905	1.93309	2.13645	2.36117	2.60948	2.88388	3.18711	3.52218	3.89247	4.30166
0.46	1.58407	1.7508	1.93502	2.13859	2.36353	2.6121	2.88677	3.19029	3.52571	3.89636	4.30596
0.461	1.58566	1.75255	1.93696	2.14073	2.3659	2.61471	2.88966	3.19349	3.52924	3.90026	4.31027
0.462	1.58725	1.7543	1.9389	2.14287	2.36826	2.61732	2.89255	3.19668	3.53277	3.90416	4.31458
0.463	1.58883	1.75606	1.94084	2.14502	2.37063	2.61994	2.89544	3.19988	3.5363	3.90807	4.3189
0.464	1.59042	1.75782	1.94278	2.14716	2.373	2.62256	2.89834	3.20308	3.53984	3.91198	4.32322
0.465	1.59201	1.75958	1.94472	2.14931	2.37538	2.62519	2.90124	3.20629	3.54338	3.91589	4.32754
0.466	1.59361	1.76134	1.94667	2.15146	2.37775	2.62782	2.90414	3.20949	3.54693	3.91981	4.33187
0.467	1.5952	1.7631	1.94862	2.15361	2.38013	2.63044	2.90705	3.21271	3.55048	3.92373	4.33621
0.468	1.5968	1.76486	1.95057	2.15577	2.38251	2.63308	2.90996	3.21592	3.55403	3.92766	4.34055
0.469	1.59839	1.76663	1.95252	2.15792	2.3849	2.63571	2.91287	3.21914	3.55758	3.93159	4.34489

0.47	1.59999	1.7684	1.95447	2.16008	2.38728	2.63835	2.91578	3.22236	3.56114	3.93552	4.34924
0.471	1.60159	1.77016	1.95643	2.16224	2.38967	2.64099	2.9187	3.22558	3.56471	3.93946	4.35359
0.472	1.6032	1.77194	1.95838	2.16441	2.39206	2.64363	2.92162	3.22881	3.56827	3.9434	4.35794
0.473	1.6048	1.77371	1.96034	2.16657	2.39446	2.64627	2.92454	3.23204	3.57184	3.94735	4.3623
0.474	1.60641	1.77548	1.96231	2.16874	2.39685	2.64892	2.92747	3.23527	3.57542	3.95129	4.36667
0.475	1.60801	1.77726	1.96427	2.17091	2.39925	2.65157	2.9304	3.23851	3.57899	3.95525	4.37104
0.476	1.60962	1.77904	1.96623	2.17308	2.40165	2.65423	2.93333	3.24175	3.58257	3.95921	4.37541
0.477	1.61123	1.78082	1.9682	2.17526	2.40405	2.65688	2.93626	3.24499	3.58616	3.96317	4.37979
0.478	1.61285	1.7826	1.97017	2.17743	2.40646	2.65954	2.9392	3.24824	3.58975	3.96713	4.38417
0.479	1.61446	1.78438	1.97214	2.17961	2.40887	2.6622	2.94214	3.25149	3.59334	3.9711	4.38855
0.48	1.61607	1.78617	1.97411	2.18179	2.41128	2.66486	2.94509	3.25474	3.59693	3.97507	4.39295
0.481	1.61769	1.78796	1.97609	2.18398	2.41369	2.66753	2.94803	3.258	3.60053	3.97905	4.39734
0.482	1.61931	1.78974	1.97807	2.18616	2.4161	2.6702	2.95098	3.26126	3.60413	3.98303	4.40174
0.483	1.62093	1.79153	1.98005	2.18835	2.41852	2.67287	2.95393	3.26452	3.60774	3.98702	4.40614
0.484	1.62255	1.79333	1.98203	2.19054	2.42094	2.67554	2.95689	3.26779	3.61135	3.99101	4.41055
0.485	1.62418	1.79512	1.98401	2.19273	2.42336	2.67822	2.95985	3.27106	3.61496	3.995	4.41497
0.486	1.6258	1.79692	1.98599	2.19492	2.42579	2.6809	2.96281	3.27433	3.61858	3.999	4.41938
0.487	1.62743	1.79872	1.98798	2.19712	2.42822	2.68358	2.96577	3.27761	3.6222	4.003	4.4238
0.488	1.62905	1.80051	1.98997	2.19932	2.43065	2.68627	2.96874	3.28089	3.62582	4.007	4.42823
0.489	1.63068	1.80232	1.99196	2.20152	2.43308	2.68896	2.97171	3.28417	3.62945	4.01101	4.43266
0.49	1.63232	1.80412	1.99395	2.20372	2.43551	2.69165	2.97468	3.28745	3.63308	4.01502	4.4371
0.491	1.63395	1.80592	1.99595	2.20592	2.43795	2.69434	2.97766	3.29074	3.63672	4.01904	4.44153
0.492	1.63558	1.80773	1.99795	2.20813	2.44039	2.69703	2.98064	3.29404	3.64036	4.02306	4.44598
0.493	1.63722	1.80954	1.99995	2.21034	2.44283	2.69973	2.98362	3.29733	3.644	4.02709	4.45043
0.494	1.63886	1.81135	2.00195	2.21255	2.44527	2.70243	2.98661	3.30063	3.64764	4.03112	4.45488
0.495	1.6405	1.81316	2.00395	2.21477	2.44772	2.70514	2.98959	3.30393	3.65129	4.03515	4.45934
0.496	1.64214	1.81498	2.00595	2.21698	2.45017	2.70784	2.99259	3.30724	3.65495	4.03919	4.4638
0.497	1.64378	1.81679	2.00796	2.2192	2.45262	2.71055	2.99558	3.31055	3.6586	4.04323	4.46826
0.498	1.64543	1.81861	2.00997	2.22142	2.45507	2.71327	2.99858	3.31386	3.66226	4.04727	4.47273
0.499	1.64707	1.82043	2.01198	2.22364	2.45753	2.71598	3.00158	3.31718	3.66593	4.05132	4.47721
0.5	1.64872	1.82225	2.01399	2.22587	2.45999	2.7187	3.00458	3.32049	3.6696	4.05538	4.48169
0.501	1.65037	1.82407	2.01601	2.22809	2.46245	2.72142	3.00759	3.32382	3.67327	4.05943	4.48617
0.502	1.65202	1.8259	2.01803	2.23032	2.46491	2.72414	3.0106	3.32714	3.67694	4.06349	4.49066
0.503	1.65367	1.82773	2.02005	2.23256	2.46738	2.72687	3.01361	3.33047	3.68062	4.06756	4.49515
0.504	1.65533	1.82955	2.02207	2.23479	2.46985	2.72959	3.01662	3.3338	3.6843	4.07163	4.49965
0.505	1.65699	1.83139	2.02409	2.23703	2.47232	2.73233	3.01964	3.33714	3.68799	4.0757	4.50415
0.506	1.65864	1.83322	2.02611	2.23926	2.47479	2.73506	3.02266	3.34048	3.69168	4.07978	4.50866
0.507	1.6603	1.83505	2.02814	2.2415	2.47727	2.7378	3.02569	3.34382	3.69537	4.08386	4.51317
0.508	1.66196	1.83689	2.03017	2.24375	2.47975	2.74053	3.02871	3.34716	3.69907	4.08795	4.51769
0.509	1.66363	1.83873	2.0322	2.24599	2.48223	2.74328	3.03174	3.35051	3.70277	4.09204	4.52221
0.51	1.66529	1.84057	2.03424	2.24824	2.48471	2.74602	3.03478	3.35387	3.70648	4.09613	4.52673

0.511	1.66696	1.84241	2.03627	2.25049	2.4872	2.74877	3.03781	3.35722	3.71018	4.10023	4.53126
0.512	1.66863	1.84425	2.03831	2.25274	2.48969	2.75152	3.04085	3.36058	3.7139	4.10433	4.53579
0.513	1.67029	1.8461	2.04035	2.25499	2.49218	2.75427	3.0439	3.36394	3.71761	4.10844	4.54033
0.514	1.67197	1.84794	2.04239	2.25725	2.49467	2.75703	3.04694	3.36731	3.72133	4.11255	4.54487
0.515	1.67364	1.84979	2.04443	2.25951	2.49717	2.75979	3.04999	3.37068	3.72505	4.11666	4.54942
0.516	1.67531	1.85164	2.04648	2.26177	2.49967	2.76255	3.05304	3.37405	3.72878	4.12078	4.55397
0.517	1.67699	1.85349	2.04853	2.26403	2.50217	2.76531	3.0561	3.37743	3.73251	4.12491	4.55853
0.518	1.67867	1.85535	2.05057	2.2663	2.50467	2.76808	3.05915	3.3808	3.73625	4.12903	4.56309
0.519	1.68035	1.85721	2.05263	2.26856	2.50718	2.77085	3.06221	3.38419	3.73999	4.13316	4.56766
0.52	1.68203	1.85906	2.05468	2.27083	2.50968	2.77362	3.06528	3.38757	3.74373	4.1373	4.57223
0.521	1.68371	1.86092	2.05674	2.27311	2.5122	2.77639	3.06834	3.39096	3.74747	4.14144	4.5768
0.522	1.6854	1.86279	2.05879	2.27538	2.51471	2.77917	3.07141	3.39435	3.75122	4.14558	4.58138
0.523	1.68708	1.86465	2.06085	2.27766	2.51722	2.78195	3.07449	3.39775	3.75498	4.14973	4.58596
0.524	1.68877	1.86651	2.06292	2.27994	2.51974	2.78474	3.07756	3.40115	3.75873	4.15388	4.59055
0.525	1.69046	1.86838	2.06498	2.28222	2.52226	2.78752	3.08064	3.40455	3.76249	4.15804	4.59514
0.526	1.69215	1.87025	2.06705	2.2845	2.52479	2.79031	3.08372	3.40796	3.76626	4.1622	4.59974
0.527	1.69384	1.87212	2.06911	2.28679	2.52731	2.7931	3.08681	3.41137	3.77003	4.16636	4.60434
0.528	1.69554	1.874	2.07118	2.28907	2.52984	2.7959	3.0899	3.41478	3.7738	4.17053	4.60895
0.529	1.69723	1.87587	2.07326	2.29136	2.53237	2.7987	3.09299	3.4182	3.77757	4.1747	4.61356
0.53	1.69893	1.87775	2.07533	2.29366	2.53491	2.8015	3.09608	3.42162	3.78135	4.17888	4.61818
0.531	1.70063	1.87963	2.07741	2.29595	2.53744	2.8043	3.09918	3.42504	3.78514	4.18306	4.6228
0.532	1.70233	1.88151	2.07948	2.29825	2.53998	2.8071	3.10228	3.42847	3.78892	4.18725	4.62742
0.533	1.70404	1.88339	2.08157	2.30055	2.54252	2.80991	3.10539	3.4319	3.79271	4.19144	4.63205
0.534	1.70574	1.88527	2.08365	2.30285	2.54507	2.81272	3.10849	3.43533	3.79651	4.19563	4.63669
0.535	1.70745	1.88716	2.08573	2.30515	2.54761	2.81554	3.1116	3.43877	3.80031	4.19983	4.64133
0.536	1.70916	1.88905	2.08782	2.30746	2.55016	2.81835	3.11472	3.44221	3.80411	4.20403	4.64597
0.537	1.71087	1.89094	2.08991	2.30977	2.55271	2.82117	3.11783	3.44565	3.80791	4.20824	4.65062
0.538	1.71258	1.89283	2.092	2.31208	2.55527	2.824	3.12095	3.4491	3.81172	4.21245	4.65527
0.539	1.71429	1.89472	2.09409	2.31439	2.55782	2.82682	3.12407	3.45255	3.81554	4.21666	4.65993
0.54	1.71601	1.89662	2.09619	2.31671	2.56038	2.82965	3.1272	3.45601	3.81936	4.22088	4.66459
0.541	1.71772	1.89852	2.09828	2.31903	2.56295	2.83248	3.13033	3.45946	3.82318	4.2251	4.66926
0.542	1.71944	1.90042	2.10038	2.32135	2.56551	2.83532	3.13346	3.46293	3.827	4.22933	4.67393
0.543	1.72116	1.90232	2.10249	2.32367	2.56808	2.83815	3.1366	3.46639	3.83083	4.23356	4.67861
0.544	1.72288	1.90422	2.10459	2.32599	2.57065	2.84099	3.13973	3.46986	3.83466	4.2378	4.68329
0.545	1.72461	1.90613	2.10669	2.32832	2.57322	2.84383	3.14288	3.47333	3.8385	4.24204	4.68797
0.546	1.72633	1.90803	2.1088	2.33065	2.57579	2.84668	3.14602	3.4768	3.84234	4.24628	4.69266
0.547	1.72806	1.90994	2.11091	2.33298	2.57837	2.84953	3.14917	3.48028	3.84618	4.25053	4.69736
0.548	1.72979	1.91185	2.11302	2.33532	2.58095	2.85238	3.15232	3.48377	3.85003	4.25478	4.70206
0.549	1.73152	1.91377	2.11514	2.33765	2.58353	2.85523	3.15547	3.48725	3.85388	4.25904	4.70676
0.55	1.73325	1.91568	2.11725	2.33999	2.58612	2.85809	3.15863	3.49074	3.85774	4.2633	4.71147
0.551	1.73499	1.9176	2.11937	2.34233	2.5887	2.86095	3.16179	3.49423	3.8616	4.26757	4.71618

0.552	1.73672	1.91952	2.12149	2.34468	2.59129	2.86381	3.16495	3.49773	3.86546	4.27183	4.7209
0.553	1.73846	1.92144	2.12362	2.34702	2.59389	2.86668	3.16812	3.50123	3.86933	4.27611	4.72563
0.554	1.7402	1.92336	2.12574	2.34937	2.59648	2.86954	3.17129	3.50473	3.8732	4.28039	4.73035
0.555	1.74194	1.92528	2.12787	2.35172	2.59908	2.87242	3.17446	3.50824	3.87708	4.28467	4.73509
0.556	1.74368	1.92721	2.13	2.35407	2.60168	2.87529	3.17764	3.51175	3.88096	4.28896	4.73982
0.557	1.74543	1.92914	2.13213	2.35643	2.60428	2.87817	3.18082	3.51526	3.88484	4.29325	4.74457
0.558	1.74717	1.93107	2.13426	2.35879	2.60689	2.88105	3.184	3.51878	3.88873	4.29754	4.74931
0.559	1.74892	1.933	2.1364	2.36115	2.6095	2.88393	3.18719	3.5223	3.89262	4.30184	4.75406
0.56	1.75067	1.93493	2.13853	2.36351	2.61211	2.88681	3.19037	3.52582	3.89651	4.30615	4.75882
0.561	1.75242	1.93687	2.14067	2.36587	2.61472	2.8897	3.19357	3.52935	3.90041	4.31045	4.76358
0.562	1.75418	1.93881	2.14281	2.36824	2.61734	2.89259	3.19676	3.53288	3.90431	4.31477	4.76835
0.563	1.75593	1.94075	2.14496	2.37061	2.61996	2.89549	3.19996	3.53642	3.90822	4.31908	4.77312
0.564	1.75769	1.94269	2.1471	2.37298	2.62258	2.89838	3.20316	3.53995	3.91213	4.32341	4.77789
0.565	1.75945	1.94463	2.14925	2.37536	2.6252	2.90128	3.20637	3.5435	3.91604	4.32773	4.78267
0.566	1.76121	1.94658	2.1514	2.37773	2.62783	2.90419	3.20957	3.54704	3.91996	4.33206	4.78746
0.567	1.76297	1.94853	2.15356	2.38011	2.63046	2.90709	3.21279	3.55059	3.92388	4.3364	4.79225
0.568	1.76473	1.95047	2.15571	2.38249	2.63309	2.91	3.216	3.55414	3.92781	4.34073	4.79704
0.569	1.7665	1.95243	2.15787	2.38488	2.63572	2.91291	3.21922	3.5577	3.93174	4.34508	4.80184
0.57	1.76827	1.95438	2.16003	2.38726	2.63836	2.91583	3.22244	3.56126	3.93567	4.34942	4.80665
0.571	1.77004	1.95634	2.16219	2.38965	2.641	2.91874	3.22566	3.56482	3.93961	4.35378	4.81146
0.572	1.77181	1.95829	2.16435	2.39204	2.64364	2.92166	3.22889	3.56839	3.94355	4.35813	4.81627
0.573	1.77358	1.96025	2.16652	2.39444	2.64629	2.92459	3.23212	3.57196	3.9475	4.36249	4.82109
0.574	1.77535	1.96221	2.16868	2.39683	2.64893	2.92751	3.23535	3.57553	3.95145	4.36686	4.82591
0.575	1.77713	1.96418	2.17085	2.39923	2.65158	2.93044	3.23859	3.57911	3.9554	4.37123	4.83074
0.576	1.77891	1.96614	2.17303	2.40163	2.65424	2.93337	3.24183	3.58269	3.95936	4.3756	4.83557
0.577	1.78069	1.96811	2.1752	2.40403	2.65689	2.93631	3.24507	3.58627	3.96332	4.37998	4.84041
0.578	1.78247	1.97008	2.17738	2.40644	2.65955	2.93925	3.24832	3.58986	3.96728	4.38436	4.84526
0.579	1.78425	1.97205	2.17955	2.40884	2.66221	2.94219	3.25157	3.59345	3.97125	4.38875	4.8501
0.58	1.78604	1.97402	2.18173	2.41125	2.66488	2.94513	3.25482	3.59705	3.97523	4.39314	4.85496
0.581	1.78783	1.976	2.18392	2.41367	2.66754	2.94808	3.25808	3.60065	3.9792	4.39753	4.85981
0.582	1.78961	1.97797	2.1861	2.41608	2.67021	2.95103	3.26134	3.60425	3.98319	4.40193	4.86468
0.583	1.7914	1.97995	2.18829	2.4185	2.67288	2.95398	3.2646	3.60786	3.98717	4.40634	4.86954
0.584	1.7932	1.98193	2.19048	2.42092	2.67556	2.95694	3.26787	3.61147	3.99116	4.41074	4.87441
0.585	1.79499	1.98392	2.19267	2.42334	2.67823	2.95989	3.27114	3.61508	3.99515	4.41516	4.87929
0.586	1.79679	1.9859	2.19486	2.42577	2.68091	2.96286	3.27441	3.6187	3.99915	4.41957	4.88417
0.587	1.79858	1.98789	2.19706	2.42819	2.6836	2.96582	3.27769	3.62232	4.00315	4.424	4.88906
0.588	1.80038	1.98988	2.19926	2.43062	2.68628	2.96879	3.28097	3.62594	4.00716	4.42842	4.89395
0.589	1.80219	1.99187	2.20146	2.43305	2.68897	2.97176	3.28425	3.62957	4.01117	4.43285	4.89885
0.59	1.80399	1.99386	2.20366	2.43549	2.69166	2.97473	3.28754	3.6332	4.01518	4.43729	4.90375
0.591	1.80579	1.99586	2.20587	2.43793	2.69435	2.97771	3.29083	3.63684	4.0192	4.44173	4.90866
0.592	1.8076	1.99785	2.20807	2.44036	2.69705	2.98069	3.29412	3.64047	4.02322	4.44617	4.91357

0.593	1.80941	1.99985	2.21028	2.44281	2.69975	2.98367	3.29741	3.64412	4.02724	4.45062	4.91848
0.594	1.81122	2.00185	2.21249	2.44525	2.70245	2.98665	3.30071	3.64776	4.03127	4.45507	4.9234
0.595	1.81303	2.00386	2.21471	2.4477	2.70515	2.98964	3.30401	3.65141	4.0353	4.45953	4.92833
0.596	1.81484	2.00586	2.21692	2.45015	2.70786	2.99263	3.30732	3.65506	4.03934	4.46399	4.93326
0.597	1.81666	2.00787	2.21914	2.4526	2.71057	2.99563	3.31063	3.65872	4.04338	4.46846	4.9382
0.598	1.81848	2.00988	2.22136	2.45505	2.71328	2.99862	3.31394	3.66238	4.04743	4.47293	4.94314
0.599	1.8203	2.01189	2.22358	2.45751	2.71599	3.00162	3.31726	3.66605	4.05148	4.4774	4.94808
0.6	1.82212	2.0139	2.22581	2.45997	2.71871	3.00463	3.32058	3.66971	4.05553	4.48188	4.95303
0.601	1.82394	2.01591	2.22804	2.46243	2.72143	3.00763	3.3239	3.67339	4.05959	4.48637	4.95799
0.602	1.82577	2.01793	2.23027	2.46489	2.72415	3.01064	3.32722	3.67706	4.06365	4.49086	4.96295
0.603	1.82759	2.01995	2.2325	2.46736	2.72688	3.01365	3.33055	3.68074	4.06772	4.49535	4.96791
0.604	1.82942	2.02197	2.23473	2.46983	2.72961	3.01667	3.33389	3.68442	4.07179	4.49985	4.97288
0.605	1.83125	2.02399	2.23697	2.4723	2.73234	3.01969	3.33722	3.68811	4.07586	4.50435	4.97786
0.606	1.83308	2.02602	2.2392	2.47477	2.73507	3.02271	3.34056	3.6918	4.07994	4.50886	4.98284
0.607	1.83492	2.02805	2.24144	2.47725	2.73781	3.02573	3.3439	3.69549	4.08402	4.51337	4.98783
0.608	1.83675	2.03008	2.24369	2.47972	2.74055	3.02876	3.34725	3.69919	4.08811	4.51788	4.99282
0.609	1.83859	2.03211	2.24593	2.48221	2.74329	3.03179	3.3506	3.70289	4.0922	4.5224	4.99781
0.61	1.84043	2.03414	2.24818	2.48469	2.74603	3.03482	3.35395	3.7066	4.09629	4.52693	5.00281
0.611	1.84227	2.03617	2.25043	2.48717	2.74878	3.03786	3.3573	3.7103	4.10039	4.53146	5.00782
0.612	1.84412	2.03821	2.25268	2.48966	2.75153	3.0409	3.36066	3.71402	4.10449	4.53599	5.01283
0.613	1.84596	2.04025	2.25493	2.49215	2.75428	3.04394	3.36403	3.71773	4.1086	4.54053	5.01784
0.614	1.84781	2.04229	2.25719	2.49465	2.75704	3.04699	3.36739	3.72145	4.11271	4.54507	5.02286
0.615	1.84966	2.04434	2.25945	2.49714	2.7598	3.05004	3.37076	3.72518	4.11682	4.54962	5.02789
0.616	1.85151	2.04638	2.26171	2.49964	2.76256	3.05309	3.37413	3.7289	4.12094	4.55417	5.03292
0.617	1.85336	2.04843	2.26397	2.50214	2.76532	3.05614	3.37751	3.73263	4.12507	4.55873	5.03795
0.618	1.85521	2.05048	2.26624	2.50465	2.76809	3.0592	3.38089	3.73637	4.12919	4.56329	5.04299
0.619	1.85707	2.05253	2.2685	2.50715	2.77086	3.06226	3.38427	3.74011	4.13332	4.56785	5.04804
0.62	1.85893	2.05458	2.27077	2.50966	2.77363	3.06532	3.38766	3.74385	4.13746	4.57242	5.05309
0.621	1.86079	2.05664	2.27305	2.51217	2.77641	3.06839	3.39105	3.74759	4.1416	4.577	5.05815
0.622	1.86265	2.0587	2.27532	2.51468	2.77918	3.07146	3.39444	3.75134	4.14574	4.58158	5.06321
0.623	1.86451	2.06076	2.2776	2.5172	2.78196	3.07453	3.39783	3.7551	4.14989	4.58616	5.06827
0.624	1.86638	2.06282	2.27987	2.51972	2.78475	3.07761	3.40123	3.75885	4.15404	4.59075	5.07334
0.625	1.86825	2.06488	2.28216	2.52224	2.78753	3.08069	3.40464	3.76261	4.1582	4.59534	5.07842
0.626	1.87012	2.06695	2.28444	2.52476	2.79032	3.08377	3.40804	3.76638	4.16236	4.59994	5.0835
0.627	1.87199	2.06902	2.28672	2.52729	2.79312	3.08686	3.41145	3.77015	4.16652	4.60454	5.08859
0.628	1.87386	2.07109	2.28901	2.52982	2.79591	3.08995	3.41487	3.77392	4.17069	4.60915	5.09368
0.629	1.87573	2.07316	2.2913	2.53235	2.79871	3.09304	3.41828	3.77769	4.17486	4.61376	5.09877
0.63	1.87761	2.07523	2.2936	2.53488	2.80151	3.09613	3.4217	3.78147	4.17904	4.61838	5.10387
0.631	1.87949	2.07731	2.29589	2.53742	2.80431	3.09923	3.42513	3.78526	4.18322	4.623	5.10898
0.632	1.88137	2.07939	2.29819	2.53996	2.80712	3.10233	3.42855	3.78904	4.18741	4.62762	5.11409
0.633	1.88325	2.08147	2.30049	2.5425	2.80992	3.10543	3.43198	3.79284	4.1916	4.63225	5.11921

0.634	1.88514	2.08355	2.30279	2.54504	2.81274	3.10854	3.43542	3.79663	4.19579	4.63689	5.12433
0.635	1.88702	2.08563	2.30509	2.54759	2.81555	3.11165	3.43885	3.80043	4.19999	4.64153	5.12946
0.636	1.88891	2.08772	2.3074	2.55014	2.81837	3.11476	3.4423	3.80423	4.20419	4.64617	5.13459
0.637	1.8908	2.08981	2.30971	2.55269	2.82119	3.11788	3.44574	3.80804	4.2084	4.65082	5.13973
0.638	1.89269	2.0919	2.31202	2.55524	2.82401	3.121	3.44919	3.81185	4.21261	4.65547	5.14487
0.639	1.89459	2.09399	2.31433	2.5578	2.82683	3.12412	3.45264	3.81566	4.21682	4.66013	5.15002
0.64	1.89648	2.09609	2.31665	2.56036	2.82966	3.12725	3.45609	3.81948	4.22104	4.66479	5.15517
0.641	1.89838	2.09819	2.31896	2.56292	2.83249	3.13038	3.45955	3.8233	4.22526	4.66946	5.16033
0.642	1.90028	2.10028	2.32128	2.56548	2.83533	3.13351	3.46301	3.82713	4.22949	4.67413	5.16549
0.643	1.90218	2.10239	2.32361	2.56805	2.83816	3.13664	3.46648	3.83095	4.23372	4.67881	5.17066
0.644	1.90408	2.10449	2.32593	2.57062	2.841	3.13978	3.46994	3.83479	4.23796	4.68349	5.17583
0.645	1.90599	2.1066	2.32826	2.57319	2.84385	3.14292	3.47342	3.83862	4.2422	4.68818	5.18101
0.646	1.90789	2.1087	2.33059	2.57577	2.84669	3.14607	3.47689	3.84246	4.24644	4.69287	5.18619
0.647	1.9098	2.11081	2.33292	2.57834	2.84954	3.14922	3.48037	3.84631	4.25069	4.69756	5.19138
0.648	1.91171	2.11292	2.33525	2.58092	2.85239	3.15237	3.48385	3.85016	4.25494	4.70226	5.19658
0.649	1.91363	2.11504	2.33759	2.58351	2.85524	3.15552	3.48734	3.85401	4.2592	4.70697	5.20178
0.65	1.91554	2.11715	2.33993	2.58609	2.8581	3.15868	3.49083	3.85787	4.26346	4.71167	5.20698
0.651	1.91746	2.11927	2.34227	2.58868	2.86096	3.16184	3.49432	3.86172	4.26773	4.71639	5.21219
0.652	1.91938	2.12139	2.34461	2.59127	2.86382	3.165	3.49781	3.86559	4.272	4.72111	5.2174
0.653	1.9213	2.12352	2.34696	2.59386	2.86669	3.16817	3.50131	3.86946	4.27627	4.72583	5.22262
0.654	1.92322	2.12564	2.34931	2.59646	2.86956	3.17134	3.50482	3.87333	4.28055	4.73056	5.22785
0.655	1.92514	2.12777	2.35166	2.59905	2.87243	3.17451	3.50832	3.8772	4.28483	4.73529	5.23308
0.656	1.92707	2.1299	2.35401	2.60165	2.8753	3.17769	3.51183	3.88108	4.28912	4.74003	5.23832
0.657	1.929	2.13203	2.35637	2.60426	2.87818	3.18087	3.51535	3.88496	4.29341	4.74477	5.24356
0.658	1.93093	2.13416	2.35872	2.60686	2.88106	3.18405	3.51886	3.88885	4.29771	4.74952	5.2488
0.659	1.93286	2.13629	2.36108	2.60947	2.88394	3.18723	3.52239	3.89274	4.30201	4.75427	5.25405
0.66	1.93479	2.13843	2.36345	2.61208	2.88683	3.19042	3.52591	3.89664	4.30631	4.75903	5.25931
0.661	1.93673	2.14057	2.36581	2.6147	2.88971	3.19362	3.52944	3.90054	4.31062	4.76379	5.26457
0.662	1.93867	2.14271	2.36818	2.61731	2.89261	3.19681	3.53297	3.90444	4.31493	4.76856	5.26984
0.663	1.94061	2.14486	2.37055	2.61993	2.8955	3.20001	3.5365	3.90834	4.31925	4.77333	5.27511
0.664	1.94255	2.147	2.37292	2.62255	2.8984	3.20321	3.54004	3.91226	4.32357	4.7781	5.28039
0.665	1.94449	2.14915	2.37529	2.62517	2.9013	3.20642	3.54358	3.91617	4.3279	4.78288	5.28567
0.666	1.94644	2.1513	2.37767	2.6278	2.9042	3.20962	3.54713	3.92009	4.33223	4.78767	5.29096
0.667	1.94838	2.15345	2.38005	2.63043	2.9071	3.21283	3.55068	3.92401	4.33656	4.79246	5.29626
0.668	1.95033	2.15561	2.38243	2.63306	2.91001	3.21605	3.55423	3.92794	4.3409	4.79725	5.30155
0.669	1.95228	2.15776	2.38481	2.6357	2.91292	3.21927	3.55779	3.93187	4.34524	4.80205	5.30686
0.67	1.95424	2.15992	2.3872	2.63833	2.91584	3.22249	3.56135	3.9358	4.34959	4.80686	5.31217
0.671	1.95619	2.16208	2.38959	2.64097	2.91876	3.22571	3.56491	3.93974	4.35394	4.81167	5.31748
0.672	1.95815	2.16425	2.39198	2.64362	2.92168	3.22894	3.56848	3.94368	4.3583	4.81648	5.3228
0.673	1.96011	2.16641	2.39437	2.64626	2.9246	3.23217	3.57205	3.94762	4.36266	4.8213	5.32813
0.674	1.96207	2.16858	2.39677	2.64891	2.92753	3.2354	3.57562	3.95157	4.36702	4.82612	5.33346

0.675	1.96403	2.17075	2.39916	2.65156	2.93045	3.23864	3.5792	3.95553	4.37139	4.83095	5.3388
0.676	1.966	2.17292	2.40156	2.65421	2.93339	3.24188	3.58278	3.95949	4.37577	4.83579	5.34414
0.677	1.96796	2.1751	2.40397	2.65687	2.93632	3.24512	3.58636	3.96345	4.38015	4.84062	5.34948
0.678	1.96993	2.17727	2.40637	2.65953	2.93926	3.24837	3.58995	3.96741	4.38453	4.84547	5.35484
0.679	1.9719	2.17945	2.40878	2.66219	2.9422	3.25162	3.59354	3.97138	4.38891	4.85031	5.36019
0.68	1.97388	2.18163	2.41119	2.66485	2.94514	3.25487	3.59714	3.97535	4.39331	4.85517	5.36556
0.681	1.97585	2.18381	2.4136	2.66752	2.94809	3.25813	3.60074	3.97933	4.3977	4.86002	5.37092
0.682	1.97783	2.186	2.41602	2.67018	2.95104	3.26139	3.60434	3.98331	4.4021	4.86489	5.3763
0.683	1.97981	2.18819	2.41843	2.67286	2.95399	3.26465	3.60795	3.9873	4.4065	4.86975	5.38168
0.684	1.98179	2.19038	2.42085	2.67553	2.95695	3.26792	3.61156	3.99129	4.41091	4.87463	5.38706
0.685	1.98377	2.19257	2.42328	2.67821	2.95991	3.27119	3.61517	3.99528	4.41533	4.8795	5.39245
0.686	1.98576	2.19476	2.4257	2.68089	2.96287	3.27446	3.61879	3.99928	4.41974	4.88439	5.39785
0.687	1.98774	2.19696	2.42813	2.68357	2.96583	3.27774	3.62241	4.00328	4.42417	4.88927	5.40325
0.688	1.98973	2.19915	2.43056	2.68625	2.9688	3.28102	3.62603	4.00729	4.42859	4.89416	5.40865
0.689	1.99172	2.20135	2.43299	2.68894	2.97177	3.2843	3.62966	4.01129	4.43302	4.89906	5.41406
0.69	1.99372	2.20356	2.43542	2.69163	2.97474	3.28759	3.63329	4.01531	4.43746	4.90396	5.41948
0.691	1.99571	2.20576	2.43786	2.69432	2.97772	3.29088	3.63692	4.01933	4.4419	4.90887	5.4249
0.692	1.99771	2.20797	2.4403	2.69702	2.9807	3.29417	3.64056	4.02335	4.44634	4.91378	5.43033
0.693	1.99971	2.21018	2.44274	2.69972	2.98368	3.29746	3.64421	4.02737	4.45079	4.9187	5.43576
0.694	2.00171	2.21239	2.44518	2.70242	2.98667	3.30076	3.64785	4.0314	4.45524	4.92362	5.4412
0.695	2.00371	2.2146	2.44763	2.70512	2.98965	3.30407	3.6515	4.03543	4.4597	4.92854	5.44665
0.696	2.00571	2.21682	2.45008	2.70783	2.99264	3.30737	3.65515	4.03947	4.46416	4.93347	5.4521
0.697	2.00772	2.21904	2.45253	2.71054	2.99564	3.31068	3.65881	4.04351	4.46863	4.93841	5.45755
0.698	2.00973	2.22126	2.45498	2.71325	2.99864	3.31399	3.66247	4.04756	4.4731	4.94335	5.46301
0.699	2.01174	2.22348	2.45744	2.71597	3.00164	3.31731	3.66614	4.05161	4.47758	4.9483	5.46848
0.7	2.01375	2.2257	2.4599	2.71868	3.00464	3.32063	3.6698	4.05566	4.48206	4.95325	5.47395
0.701	2.01577	2.22793	2.46236	2.7214	3.00765	3.32395	3.67348	4.05972	4.48654	4.9582	5.47942
0.702	2.01778	2.23016	2.46482	2.72413	3.01065	3.32728	3.67715	4.06378	4.49103	4.96316	5.48491
0.703	2.0198	2.23239	2.46729	2.72685	3.01367	3.3306	3.68083	4.06785	4.49552	4.96813	5.49039
0.704	2.02182	2.23462	2.46976	2.72958	3.01668	3.33394	3.68451	4.07192	4.50002	4.9731	5.49589
0.705	2.02385	2.23686	2.47223	2.73231	3.0197	3.33727	3.6882	4.07599	4.50452	4.97808	5.50139
0.706	2.02587	2.2391	2.4747	2.73504	3.02272	3.34061	3.69189	4.08007	4.50903	4.98306	5.50689
0.707	2.0279	2.24134	2.47718	2.73778	3.02575	3.34395	3.69558	4.08415	4.51354	4.98804	5.5124
0.708	2.02993	2.24358	2.47966	2.74052	3.02877	3.3473	3.69928	4.08824	4.51806	4.99303	5.51791
0.709	2.03196	2.24583	2.48214	2.74326	3.0318	3.35065	3.70298	4.09233	4.52258	4.99803	5.52344
0.71	2.03399	2.24807	2.48462	2.74601	3.03484	3.354	3.70669	4.09642	4.5271	5.00303	5.52896
0.711	2.03603	2.25032	2.48711	2.74875	3.03787	3.35736	3.7104	4.10052	4.53163	5.00803	5.53449
0.712	2.03806	2.25257	2.4896	2.7515	3.04091	3.36071	3.71411	4.10462	4.53616	5.01304	5.54003
0.713	2.0401	2.25483	2.49209	2.75426	3.04395	3.36408	3.71782	4.10873	4.5407	5.01806	5.54557
0.714	2.04214	2.25708	2.49458	2.75701	3.047	3.36744	3.72154	4.11284	4.54525	5.02308	5.55112
0.715	2.04419	2.25934	2.49708	2.75977	3.05005	3.37081	3.72527	4.11696	4.54979	5.02811	5.55668

0.716	2.04623	2.2616	2.49957	2.76253	3.0531	3.37418	3.72899	4.12107	4.55435	5.03314	5.56223
0.717	2.04828	2.26386	2.50208	2.7653	3.05615	3.37756	3.73272	4.1252	4.5589	5.03817	5.5678
0.718	2.05033	2.26613	2.50458	2.76806	3.05921	3.38094	3.73646	4.12933	4.56346	5.04321	5.57337
0.719	2.05238	2.2684	2.50708	2.77083	3.06227	3.38432	3.7402	4.13346	4.56803	5.04826	5.57895
0.72	2.05443	2.27067	2.50959	2.7736	3.06534	3.38771	3.74394	4.13759	4.5726	5.05331	5.58453
0.721	2.05649	2.27294	2.5121	2.77638	3.0684	3.3911	3.74769	4.14173	4.57717	5.05837	5.59012
0.722	2.05855	2.27521	2.51462	2.77916	3.07147	3.39449	3.75144	4.14588	4.58175	5.06343	5.59571
0.723	2.06061	2.27749	2.51713	2.78194	3.07455	3.39789	3.75519	4.15002	4.58634	5.06849	5.60131
0.724	2.06267	2.27977	2.51965	2.78472	3.07762	3.40129	3.75895	4.15418	4.59093	5.07356	5.60691
0.725	2.06473	2.28205	2.52217	2.78751	3.0807	3.40469	3.76271	4.15833	4.59552	5.07864	5.61252
0.726	2.0668	2.28433	2.5247	2.7903	3.08378	3.4081	3.76647	4.16249	4.60012	5.08372	5.61814
0.727	2.06886	2.28662	2.52722	2.79309	3.08687	3.41151	3.77024	4.16666	4.60472	5.08881	5.62376
0.728	2.07093	2.2889	2.52975	2.79588	3.08996	3.41492	3.77401	4.17083	4.60933	5.0939	5.62938
0.729	2.07301	2.29119	2.53228	2.79868	3.09305	3.41834	3.77779	4.175	4.61394	5.099	5.63502
0.73	2.07508	2.29349	2.53481	2.80148	3.09614	3.42176	3.78157	4.17918	4.61855	5.1041	5.64065
0.731	2.07716	2.29578	2.53735	2.80428	3.09924	3.42518	3.78535	4.18336	4.62318	5.1092	5.6463
0.732	2.07923	2.29808	2.53989	2.80709	3.10234	3.42861	3.78914	4.18754	4.6278	5.11432	5.65195
0.733	2.08132	2.30038	2.54243	2.8099	3.10545	3.43204	3.79293	4.19173	4.63243	5.11943	5.6576
0.734	2.0834	2.30268	2.54497	2.81271	3.10855	3.43547	3.79672	4.19593	4.63707	5.12455	5.66326
0.735	2.08548	2.30498	2.54752	2.81552	3.11166	3.43891	3.80052	4.20012	4.64171	5.12968	5.66893
0.736	2.08757	2.30729	2.55007	2.81834	3.11478	3.44235	3.80432	4.20433	4.64635	5.13481	5.6746
0.737	2.08966	2.3096	2.55262	2.82116	3.11789	3.44579	3.80813	4.20853	4.651	5.13995	5.68028
0.738	2.09175	2.31191	2.55517	2.82398	3.12101	3.44924	3.81194	4.21274	4.65565	5.14509	5.68596
0.739	2.09384	2.31422	2.55773	2.82681	3.12414	3.45269	3.81575	4.21696	4.66031	5.15024	5.69165
0.74	2.09594	2.31654	2.56029	2.82963	3.12726	3.45614	3.81957	4.22118	4.66497	5.15539	5.69734
0.741	2.09803	2.31885	2.56285	2.83247	3.13039	3.4596	3.82339	4.2254	4.66964	5.16055	5.70304
0.742	2.10013	2.32117	2.56542	2.8353	3.13352	3.46306	3.82722	4.22963	4.67431	5.16571	5.70875
0.743	2.10223	2.3235	2.56798	2.83814	3.13666	3.46653	3.83105	4.23386	4.67899	5.17088	5.71446
0.744	2.10434	2.32582	2.57055	2.84098	3.1398	3.47	3.83488	4.2381	4.68367	5.17606	5.72018
0.745	2.10644	2.32815	2.57312	2.84382	3.14294	3.47347	3.83872	4.24234	4.68836	5.18124	5.7259
0.746	2.10855	2.33048	2.5757	2.84666	3.14608	3.47694	3.84256	4.24658	4.69305	5.18642	5.73163
0.747	2.11066	2.33281	2.57828	2.84951	3.14923	3.48042	3.8464	4.25083	4.69774	5.19161	5.73736
0.748	2.11277	2.33514	2.58085	2.85236	3.15238	3.4839	3.85025	4.25508	4.70244	5.1968	5.7431
0.749	2.11488	2.33748	2.58344	2.85522	3.15553	3.48739	3.8541	4.25934	4.70715	5.202	5.74885
0.75	2.117	2.33982	2.58602	2.85807	3.15869	3.49088	3.85796	4.2636	4.71186	5.20721	5.7546
0.751	2.11912	2.34216	2.58861	2.86093	3.16185	3.49437	3.86182	4.26787	4.71657	5.21242	5.76036
0.752	2.12124	2.3445	2.5912	2.86379	3.16501	3.49787	3.86568	4.27214	4.72129	5.21763	5.76612
0.753	2.12336	2.34685	2.59379	2.86666	3.16818	3.50137	3.86955	4.27641	4.72601	5.22285	5.77189
0.754	2.12548	2.3492	2.59639	2.86953	3.17135	3.50487	3.87342	4.28069	4.73074	5.22808	5.77767
0.755	2.12761	2.35155	2.59898	2.8724	3.17452	3.50838	3.8773	4.28497	4.73547	5.23331	5.78345
0.756	2.12974	2.3539	2.60158	2.87527	3.1777	3.51189	3.88118	4.28926	4.74021	5.23854	5.78923

0.757	2.13187	2.35625	2.60419	2.87815	3.18088	3.5154	3.88506	4.29355	4.74495	5.24378	5.79503
0.758	2.134	2.35861	2.60679	2.88103	3.18406	3.51892	3.88895	4.29785	4.7497	5.24903	5.80082
0.759	2.13614	2.36097	2.6094	2.88391	3.18725	3.52244	3.89284	4.30215	4.75445	5.25428	5.80663
0.76	2.13828	2.36333	2.61201	2.8868	3.19044	3.52596	3.89673	4.30645	4.75921	5.25954	5.81244
0.761	2.14042	2.3657	2.61462	2.88969	3.19363	3.52949	3.90063	4.31076	4.76397	5.2648	5.81825
0.762	2.14256	2.36806	2.61724	2.89258	3.19682	3.53302	3.90453	4.31507	4.76874	5.27007	5.82407
0.763	2.1447	2.37043	2.61986	2.89547	3.20002	3.53656	3.90844	4.31939	4.77351	5.27534	5.8299
0.764	2.14685	2.37281	2.62248	2.89837	3.20322	3.5401	3.91235	4.32371	4.77829	5.28062	5.83573
0.765	2.14899	2.37518	2.6251	2.90127	3.20643	3.54364	3.91627	4.32804	4.78307	5.2859	5.84157
0.766	2.15114	2.37756	2.62773	2.90417	3.20964	3.54718	3.92018	4.33237	4.78785	5.29119	5.84742
0.767	2.1533	2.37993	2.63036	2.90708	3.21285	3.55073	3.92411	4.3367	4.79264	5.29649	5.85327
0.768	2.15545	2.38232	2.63299	2.90998	3.21606	3.55428	3.92803	4.34104	4.79744	5.30178	5.85912
0.769	2.15761	2.3847	2.63563	2.9129	3.21928	3.55784	3.93196	4.34538	4.80224	5.30709	5.86499
0.77	2.15977	2.38709	2.63826	2.91581	3.2225	3.5614	3.9359	4.34973	4.80704	5.3124	5.87085
0.771	2.16193	2.38947	2.6409	2.91873	3.22572	3.56496	3.93983	4.35408	4.81185	5.31771	5.87673
0.772	2.16409	2.39186	2.64354	2.92165	3.22895	3.56853	3.94378	4.35844	4.81667	5.32303	5.88261
0.773	2.16626	2.39426	2.64619	2.92457	3.23218	3.5721	3.94772	4.3628	4.82148	5.32836	5.88849
0.774	2.16842	2.39665	2.64884	2.9275	3.23542	3.57567	3.95167	4.36716	4.82631	5.33369	5.89438
0.775	2.17059	2.39905	2.65149	2.93043	3.23865	3.57925	3.95562	4.37153	4.83114	5.33903	5.90028
0.776	2.17276	2.40145	2.65414	2.93336	3.24189	3.58283	3.95958	4.37591	4.83597	5.34437	5.90618
0.777	2.17494	2.40385	2.6568	2.93629	3.24514	3.58642	3.96354	4.38029	4.84081	5.34972	5.91209
0.778	2.17711	2.40626	2.65945	2.93923	3.24838	3.59001	3.96751	4.38467	4.84565	5.35507	5.91801
0.779	2.17929	2.40867	2.66211	2.94217	3.25163	3.5936	3.97148	4.38906	4.8505	5.36043	5.92393
0.78	2.18147	2.41108	2.66478	2.94511	3.25489	3.59719	3.97545	4.39345	4.85535	5.36579	5.92986
0.781	2.18365	2.41349	2.66744	2.94806	3.25814	3.60079	3.97943	4.39784	4.86021	5.37116	5.93579
0.782	2.18584	2.4159	2.67011	2.95101	3.2614	3.60439	3.98341	4.40224	4.86507	5.37653	5.94173
0.783	2.18803	2.41832	2.67278	2.95396	3.26467	3.608	3.9874	4.40665	4.86994	5.38191	5.94767
0.784	2.19022	2.42074	2.67546	2.95692	3.26793	3.61161	3.99139	4.41106	4.87481	5.3873	5.95362
0.785	2.19241	2.42316	2.67813	2.95988	3.2712	3.61522	3.99538	4.41547	4.87969	5.39269	5.95958
0.786	2.1946	2.42559	2.68081	2.96284	3.27448	3.61884	3.99938	4.41989	4.88457	5.39808	5.96554
0.787	2.1968	2.42801	2.6835	2.9658	3.27775	3.62246	4.00338	4.42431	4.88946	5.40348	5.97151
0.788	2.19899	2.43044	2.68618	2.96877	3.28103	3.62609	4.00738	4.42874	4.89435	5.40889	5.97749
0.789	2.20119	2.43287	2.68887	2.97174	3.28431	3.62971	4.01139	4.43317	4.89925	5.4143	5.98347
0.79	2.2034	2.43531	2.69156	2.97471	3.2876	3.63335	4.01541	4.4376	4.90415	5.41972	5.98945
0.791	2.2056	2.43774	2.69425	2.97769	3.29089	3.63698	4.01942	4.44204	4.90906	5.42514	5.99544
0.792	2.20781	2.44018	2.69695	2.98067	3.29418	3.64062	4.02345	4.44649	4.91397	5.43057	6.00144
0.793	2.21002	2.44262	2.69965	2.98365	3.29748	3.64426	4.02747	4.45093	4.91888	5.436	6.00745
0.794	2.21223	2.44507	2.70235	2.98664	3.30078	3.64791	4.0315	4.45539	4.92381	5.44144	6.01346
0.795	2.21444	2.44751	2.70505	2.98962	3.30408	3.65156	4.03553	4.45985	4.92873	5.44688	6.01947
0.796	2.21666	2.44996	2.70776	2.99262	3.30738	3.65521	4.03957	4.46431	4.93366	5.45233	6.0255
0.797	2.21887	2.45241	2.71047	2.99561	3.31069	3.65887	4.04361	4.46877	4.9386	5.45779	6.03153

0.798	2.22109	2.45487	2.71318	2.99861	3.31401	3.66253	4.04766	4.47324	4.94354	5.46325	6.03756
0.799	2.22332	2.45732	2.71589	3.00161	3.31732	3.66619	4.05171	4.47772	4.94849	5.46871	6.0436
0.8	2.22554	2.45978	2.71861	3.00461	3.32064	3.66986	4.05576	4.4822	4.95344	5.47419	6.04965
0.801	2.22777	2.46224	2.72133	3.00762	3.32396	3.67353	4.05982	4.48668	4.95839	5.47966	6.0557
0.802	2.23	2.46471	2.72405	3.01062	3.32729	3.67721	4.06388	4.49117	4.96335	5.48514	6.06176
0.803	2.23223	2.46717	2.72678	3.01364	3.33062	3.68089	4.06795	4.49567	4.96832	5.49063	6.06782
0.804	2.23446	2.46964	2.72951	3.01665	3.33395	3.68457	4.07202	4.50016	4.97329	5.49613	6.07389
0.805	2.2367	2.47211	2.73224	3.01967	3.33729	3.68826	4.07609	4.50467	4.97827	5.50162	6.07997
0.806	2.23893	2.47459	2.73497	3.02269	3.34062	3.69195	4.08017	4.50917	4.98325	5.50713	6.08605
0.807	2.24117	2.47706	2.73771	3.02572	3.34397	3.69564	4.08425	4.51369	4.98823	5.51264	6.09214
0.808	2.24342	2.47954	2.74045	3.02874	3.34731	3.69934	4.08834	4.5182	4.99322	5.51815	6.09824
0.809	2.24566	2.48202	2.74319	3.03177	3.35066	3.70304	4.09243	4.52272	4.99822	5.52368	6.10434
0.81	2.24791	2.4845	2.74593	3.03481	3.35401	3.70674	4.09652	4.52725	5.00322	5.5292	6.11045
0.811	2.25016	2.48699	2.74868	3.03784	3.35737	3.71045	4.10062	4.53178	5.00823	5.53473	6.11656
0.812	2.25241	2.48948	2.75143	3.04088	3.36073	3.71416	4.10472	4.53631	5.01324	5.54027	6.12268
0.813	2.25466	2.49197	2.75418	3.04392	3.36409	3.71788	4.10883	4.54085	5.01825	5.54581	6.12881
0.814	2.25692	2.49446	2.75694	3.04697	3.36746	3.7216	4.11294	4.54539	5.02327	5.55136	6.13494
0.815	2.25918	2.49696	2.7597	3.05002	3.37083	3.72532	4.11706	4.54994	5.0283	5.55692	6.14108
0.816	2.26144	2.49946	2.76246	3.05307	3.3742	3.72905	4.12118	4.55449	5.03333	5.56248	6.14722
0.817	2.2637	2.50196	2.76522	3.05612	3.37757	3.73278	4.1253	4.55905	5.03837	5.56804	6.15337
0.818	2.26596	2.50446	2.76799	3.05918	3.38095	3.73652	4.12943	4.56361	5.04341	5.57361	6.15953
0.819	2.26823	2.50697	2.77076	3.06224	3.38434	3.74025	4.13356	4.56818	5.04845	5.57919	6.16569
0.82	2.2705	2.50947	2.77353	3.06531	3.38772	3.744	4.13769	4.57275	5.0535	5.58477	6.17186
0.821	2.27277	2.51198	2.7763	3.06837	3.39111	3.74774	4.14183	4.57732	5.05856	5.59036	6.17803
0.822	2.27505	2.5145	2.77908	3.07144	3.3945	3.75149	4.14598	4.5819	5.06362	5.59595	6.18421
0.823	2.27732	2.51701	2.78186	3.07452	3.3979	3.75525	4.15013	4.58649	5.06869	5.60155	6.1904
0.824	2.2796	2.51953	2.78465	3.07759	3.4013	3.759	4.15428	4.59107	5.07376	5.60716	6.1966
0.825	2.28188	2.52205	2.78743	3.08067	3.4047	3.76276	4.15843	4.59567	5.07883	5.61277	6.2028
0.826	2.28416	2.52458	2.79022	3.08375	3.40811	3.76653	4.16259	4.60027	5.08392	5.61838	6.209
0.827	2.28645	2.5271	2.79301	3.08684	3.41152	3.7703	4.16676	4.60487	5.089	5.624	6.21521
0.828	2.28874	2.52963	2.79581	3.08993	3.41493	3.77407	4.17093	4.60948	5.09409	5.62963	6.22143
0.829	2.29103	2.53216	2.7986	3.09302	3.41835	3.77785	4.1751	4.61409	5.09919	5.63526	6.22766
0.83	2.29332	2.53469	2.8014	3.09611	3.42177	3.78162	4.17928	4.6187	5.10429	5.6409	6.23389
0.831	2.29561	2.53723	2.80421	3.09921	3.42519	3.78541	4.18346	4.62332	5.1094	5.64654	6.24012
0.832	2.29791	2.53977	2.80701	3.10231	3.42862	3.7892	4.18765	4.62795	5.11451	5.65219	6.24637
0.833	2.30021	2.54231	2.80982	3.10542	3.43205	3.79299	4.19183	4.63258	5.11963	5.65785	6.25262
0.834	2.30251	2.54485	2.81263	3.10852	3.43548	3.79678	4.19603	4.63722	5.12475	5.66351	6.25887
0.835	2.30481	2.5474	2.81545	3.11163	3.43892	3.80058	4.20023	4.64185	5.12988	5.66917	6.26513
0.836	2.30712	2.54995	2.81826	3.11475	3.44236	3.80438	4.20443	4.6465	5.13501	5.67485	6.2714
0.837	2.30943	2.5525	2.82108	3.11786	3.44581	3.80819	4.20864	4.65115	5.14015	5.68052	6.27768
0.838	2.31174	2.55505	2.8239	3.12098	3.44925	3.812	4.21285	4.6558	5.14529	5.68621	6.28396

0.839	2.31405	2.55761	2.82673	3.1241	3.4527	3.81581	4.21706	4.66046	5.15044	5.6919	6.29024
0.84	2.31637	2.56017	2.82956	3.12723	3.45616	3.81963	4.22128	4.66512	5.15559	5.69759	6.29654
0.841	2.31868	2.56273	2.83239	3.13036	3.45962	3.82345	4.2255	4.66979	5.16075	5.70329	6.30284
0.842	2.321	2.56529	2.83522	3.13349	3.46308	3.82728	4.22973	4.67446	5.16591	5.709	6.30914
0.843	2.32333	2.56786	2.83806	3.13663	3.46654	3.83111	4.23396	4.67914	5.17108	5.71471	6.31546
0.844	2.32565	2.57043	2.8409	3.13976	3.47001	3.83494	4.2382	4.68382	5.17626	5.72043	6.32177
0.845	2.32798	2.573	2.84374	3.14291	3.47348	3.83878	4.24244	4.68851	5.18143	5.72615	6.3281
0.846	2.33031	2.57558	2.84659	3.14605	3.47696	3.84262	4.24668	4.6932	5.18662	5.73188	6.33443
0.847	2.33264	2.57815	2.84943	3.1492	3.48044	3.84646	4.25093	4.69789	5.19181	5.73761	6.34077
0.848	2.33497	2.58073	2.85229	3.15235	3.48392	3.85031	4.25519	4.70259	5.197	5.74335	6.34711
0.849	2.33731	2.58331	2.85514	3.1555	3.4874	3.85416	4.25944	4.7073	5.2022	5.7491	6.35346
0.85	2.33965	2.5859	2.858	3.15866	3.49089	3.85802	4.26371	4.71201	5.20741	5.75485	6.35982
0.851	2.34199	2.58849	2.86086	3.16182	3.49439	3.86188	4.26797	4.71672	5.21262	5.76061	6.36618
0.852	2.34433	2.59108	2.86372	3.16498	3.49788	3.86574	4.27224	4.72144	5.21783	5.76637	6.37255
0.853	2.34668	2.59367	2.86658	3.16815	3.50138	3.86961	4.27652	4.72616	5.22305	5.77214	6.37893
0.854	2.34902	2.59626	2.86945	3.17132	3.50488	3.87348	4.28079	4.73089	5.22828	5.77792	6.38531
0.855	2.35137	2.59886	2.87232	3.17449	3.50839	3.87736	4.28508	4.73563	5.23351	5.7837	6.3917
0.856	2.35373	2.60146	2.8752	3.17767	3.5119	3.88124	4.28936	4.74036	5.23874	5.78949	6.39809
0.857	2.35608	2.60406	2.87807	3.18085	3.51542	3.88512	4.29366	4.74511	5.24399	5.79528	6.40449
0.858	2.35844	2.60667	2.88095	3.18403	3.51893	3.88901	4.29795	4.74985	5.24923	5.80108	6.4109
0.859	2.3608	2.60928	2.88383	3.18722	3.52245	3.8929	4.30225	4.75461	5.25448	5.80688	6.41732
0.86	2.36316	2.61189	2.88672	3.1904	3.52598	3.89679	4.30656	4.75936	5.25974	5.81269	6.42374
0.861	2.36553	2.6145	2.88961	3.1936	3.52951	3.90069	4.31086	4.76413	5.265	5.81851	6.43016
0.862	2.36789	2.61712	2.8925	3.19679	3.53304	3.90459	4.31518	4.76889	5.27027	5.82433	6.4366
0.863	2.37026	2.61973	2.89539	3.19999	3.53657	3.9085	4.3195	4.77366	5.27554	5.83015	6.44304
0.864	2.37263	2.62236	2.89829	3.20319	3.54011	3.91241	4.32382	4.77844	5.28082	5.83599	6.44948
0.865	2.37501	2.62498	2.90119	3.2064	3.54365	3.91633	4.32814	4.78322	5.28611	5.84183	6.45594
0.866	2.37738	2.62761	2.90409	3.2096	3.5472	3.92024	4.33247	4.78801	5.29139	5.84767	6.4624
0.867	2.37976	2.63023	2.907	3.21282	3.55075	3.92417	4.33681	4.7928	5.29669	5.85352	6.46886
0.868	2.38214	2.63287	2.90991	3.21603	3.5543	3.92809	4.34115	4.79759	5.30199	5.85938	6.47533
0.869	2.38453	2.6355	2.91282	3.21925	3.55785	3.93202	4.34549	4.80239	5.30729	5.86524	6.48181
0.87	2.38691	2.63814	2.91573	3.22247	3.56141	3.93596	4.34984	4.8072	5.3126	5.87111	6.4883
0.871	2.3893	2.64078	2.91865	3.22569	3.56498	3.93989	4.35419	4.81201	5.31792	5.87698	6.49479
0.872	2.39169	2.64342	2.92157	3.22892	3.56854	3.94384	4.35855	4.81682	5.32324	5.88286	6.50129
0.873	2.39408	2.64606	2.92449	3.23215	3.57211	3.94778	4.36291	4.82164	5.32856	5.88875	6.50779
0.874	2.39648	2.64871	2.92742	3.23538	3.57569	3.95173	4.36727	4.82646	5.3339	5.89464	6.5143
0.875	2.39888	2.65136	2.93035	3.23862	3.57927	3.95569	4.37164	4.83129	5.33923	5.90054	6.52082
0.876	2.40128	2.65401	2.93328	3.24186	3.58285	3.95964	4.37602	4.83613	5.34457	5.90644	6.52734
0.877	2.40368	2.65667	2.93621	3.2451	3.58643	3.9636	4.38039	4.84096	5.34992	5.91235	6.53387
0.878	2.40608	2.65933	2.93915	3.24835	3.59002	3.96757	4.38478	4.84581	5.35527	5.91827	6.54041
0.879	2.40849	2.66199	2.94209	3.2516	3.59361	3.97154	4.38916	4.85066	5.36063	5.92419	6.54695

0.88	2.4109	2.66465	2.94503	3.25485	3.59721	3.97551	4.39355	4.85551	5.366	5.93011	6.5535
0.881	2.41331	2.66732	2.94798	3.25811	3.60081	3.97949	4.39795	4.86037	5.37136	5.93605	6.56006
0.882	2.41573	2.66999	2.95093	3.26137	3.60441	3.98347	4.40235	4.86523	5.37674	5.94199	6.56662
0.883	2.41814	2.67266	2.95388	3.26463	3.60801	3.98746	4.40675	4.8701	5.38212	5.94793	6.57319
0.884	2.42056	2.67533	2.95684	3.2679	3.61162	3.99145	4.41116	4.87497	5.3875	5.95388	6.57977
0.885	2.42298	2.67801	2.9598	3.27117	3.61524	3.99544	4.41558	4.87985	5.39289	5.95984	6.58635
0.886	2.42541	2.68069	2.96276	3.27444	3.61885	3.99944	4.42	4.88473	5.39829	5.9658	6.59294
0.887	2.42784	2.68337	2.96572	3.27772	3.62248	4.00344	4.42442	4.88962	5.40369	5.97177	6.59954
0.888	2.43026	2.68605	2.96869	3.281	3.6261	4.00744	4.42884	4.89451	5.4091	5.97775	6.60614
0.889	2.4327	2.68874	2.97166	3.28428	3.62973	4.01145	4.43327	4.89941	5.41451	5.98373	6.61275
0.89	2.43513	2.69143	2.97463	3.28757	3.63336	4.01547	4.43771	4.90431	5.41992	5.98971	6.61937
0.891	2.43757	2.69412	2.97761	3.29086	3.63699	4.01949	4.44215	4.90921	5.42535	5.99571	6.62599
0.892	2.44	2.69682	2.98059	3.29415	3.64063	4.02351	4.44659	4.91413	5.43078	6.0017	6.63262
0.893	2.44245	2.69952	2.98357	3.29744	3.64428	4.02753	4.45104	4.91904	5.43621	6.00771	6.63926
0.894	2.44489	2.70222	2.98656	3.30074	3.64792	4.03156	4.4555	4.92396	5.44165	6.01372	6.6459
0.895	2.44734	2.70492	2.98954	3.30405	3.65157	4.0356	4.45995	4.92889	5.44709	6.01974	6.65255
0.896	2.44978	2.70763	2.99253	3.30735	3.65523	4.03963	4.46442	4.93382	5.45254	6.02576	6.6592
0.897	2.45224	2.71034	2.99553	3.31066	3.65888	4.04367	4.46888	4.93876	5.458	6.03179	6.66587
0.898	2.45469	2.71305	2.99853	3.31397	3.66254	4.04772	4.47335	4.9437	5.46346	6.03782	6.67254
0.899	2.45714	2.71576	3.00153	3.31729	3.66621	4.05177	4.47783	4.94865	5.46892	6.04386	6.67921
0.9	2.4596	2.71848	3.00453	3.32061	3.66988	4.05582	4.48231	4.9536	5.4744	6.04991	6.68589
0.901	2.46206	2.7212	3.00753	3.32393	3.67355	4.05988	4.48679	4.95855	5.47987	6.05596	6.69258
0.902	2.46453	2.72392	3.01054	3.32725	3.67722	4.06394	4.49128	4.96351	5.48536	6.06202	6.69928
0.903	2.46699	2.72665	3.01356	3.33058	3.6809	4.06801	4.49578	4.96848	5.49084	6.06809	6.70598
0.904	2.46946	2.72938	3.01657	3.33392	3.68458	4.07208	4.50028	4.97345	5.49634	6.07416	6.71269
0.905	2.47193	2.73211	3.01959	3.33725	3.68827	4.07615	4.50478	4.97843	5.50184	6.08024	6.71941
0.906	2.47441	2.73484	3.02261	3.34059	3.69196	4.08023	4.50928	4.98341	5.50734	6.08632	6.72613
0.907	2.47688	2.73758	3.02563	3.34393	3.69565	4.08431	4.5138	4.98839	5.51285	6.09241	6.73286
0.908	2.47936	2.74032	3.02866	3.34728	3.69935	4.0884	4.51831	4.99338	5.51837	6.0985	6.7396
0.909	2.48184	2.74306	3.03169	3.35063	3.70305	4.09249	4.52283	4.99838	5.52389	6.10461	6.74634
0.91	2.48432	2.7458	3.03472	3.35398	3.70676	4.09659	4.52736	5.00338	5.52941	6.11071	6.75309
0.911	2.48681	2.74855	3.03776	3.35734	3.71047	4.10068	4.53189	5.00839	5.53495	6.11683	6.75985
0.912	2.4893	2.7513	3.0408	3.36069	3.71418	4.10479	4.53642	5.0134	5.54048	6.12295	6.76661
0.913	2.49179	2.75405	3.04384	3.36406	3.7179	4.10889	4.54096	5.01841	5.54603	6.12907	6.77338
0.914	2.49428	2.75681	3.04689	3.36742	3.72161	4.113	4.5455	5.02344	5.55158	6.13521	6.78016
0.915	2.49678	2.75956	3.04994	3.37079	3.72534	4.11712	4.55005	5.02846	5.55713	6.14134	6.78694
0.916	2.49927	2.76233	3.05299	3.37416	3.72907	4.12124	4.5546	5.03349	5.56269	6.14749	6.79373
0.917	2.50177	2.76509	3.05604	3.37754	3.7328	4.12536	4.55916	5.03853	5.56826	6.15364	6.80053
0.918	2.50428	2.76786	3.0591	3.38092	3.73653	4.12949	4.56372	5.04357	5.57383	6.15979	6.80733
0.919	2.50678	2.77063	3.06216	3.3843	3.74027	4.13362	4.56829	5.04862	5.5794	6.16596	6.81414
0.92	2.50929	2.7734	3.06522	3.38769	3.74401	4.13776	4.57286	5.05367	5.58499	6.17213	6.82096

0.921	2.5118	2.77617	3.06829	3.39108	3.74776	4.1419	4.57743	5.05872	5.59057	6.1783	6.82778
0.922	2.51431	2.77895	3.07136	3.39447	3.75151	4.14604	4.58201	5.06378	5.59617	6.18448	6.83461
0.923	2.51683	2.78173	3.07443	3.39787	3.75526	4.15019	4.5866	5.06885	5.60177	6.19067	6.84145
0.924	2.51935	2.78451	3.07751	3.40127	3.75902	4.15434	4.59119	5.07392	5.60737	6.19686	6.8483
0.925	2.52187	2.7873	3.08059	3.40467	3.76278	4.1585	4.59578	5.079	5.61298	6.20306	6.85515
0.926	2.52439	2.79009	3.08367	3.40808	3.76654	4.16266	4.60038	5.08408	5.6186	6.20927	6.86201
0.927	2.52692	2.79288	3.08676	3.41148	3.77031	4.16682	4.60498	5.08917	5.62422	6.21548	6.86887
0.928	2.52945	2.79567	3.08984	3.4149	3.77408	4.17099	4.60959	5.09426	5.62984	6.2217	6.87574
0.929	2.53198	2.79847	3.09294	3.41831	3.77786	4.17516	4.6142	5.09935	5.63548	6.22793	6.88262
0.93	2.53451	2.80127	3.09603	3.42173	3.78164	4.17934	4.61882	5.10446	5.64112	6.23416	6.88951
0.931	2.53704	2.80407	3.09913	3.42516	3.78542	4.18352	4.62344	5.10956	5.64676	6.2404	6.8964
0.932	2.53958	2.80688	3.10223	3.42858	3.78921	4.18771	4.62806	5.11468	5.65241	6.24664	6.9033
0.933	2.54212	2.80969	3.10533	3.43202	3.793	4.1919	4.63269	5.11979	5.65806	6.25289	6.91021
0.934	2.54467	2.8125	3.10844	3.43545	3.7968	4.19609	4.63733	5.12492	5.66373	6.25914	6.91712
0.935	2.54721	2.81531	3.11155	3.43889	3.8006	4.20029	4.64197	5.13004	5.66939	6.26541	6.92404
0.936	2.54976	2.81813	3.11466	3.44233	3.8044	4.20449	4.64661	5.13518	5.67506	6.27168	6.93097
0.937	2.55231	2.82095	3.11778	3.44577	3.8082	4.2087	4.65126	5.14031	5.68074	6.27795	6.93791
0.938	2.55487	2.82377	3.1209	3.44922	3.81201	4.21291	4.65592	5.14546	5.68643	6.28423	6.94485
0.939	2.55742	2.8266	3.12402	3.45267	3.81583	4.21713	4.66057	5.1506	5.69212	6.29052	6.9518
0.94	2.55998	2.82942	3.12715	3.45612	3.81965	4.22134	4.66524	5.15576	5.69781	6.29681	6.95875
0.941	2.56254	2.83225	3.13027	3.45958	3.82347	4.22557	4.6699	5.16092	5.70351	6.30311	6.96571
0.942	2.56511	2.83509	3.13341	3.46304	3.82729	4.2298	4.67458	5.16608	5.70922	6.30942	6.97268
0.943	2.56767	2.83792	3.13654	3.46651	3.83112	4.23403	4.67925	5.17125	5.71493	6.31573	6.97966
0.944	2.57024	2.84076	3.13968	3.46998	3.83495	4.23826	4.68394	5.17642	5.72065	6.32205	6.98664
0.945	2.57281	2.84361	3.14282	3.47345	3.83879	4.2425	4.68862	5.1816	5.72637	6.32838	6.99363
0.946	2.57539	2.84645	3.14596	3.47692	3.84263	4.24675	4.69331	5.18678	5.7321	6.33471	7.00063
0.947	2.57796	2.8493	3.14911	3.4804	3.84648	4.251	4.69801	5.19197	5.73783	6.34104	7.00763
0.948	2.58054	2.85215	3.15226	3.48388	3.85033	4.25525	4.70271	5.19717	5.74358	6.34739	7.01464
0.949	2.58313	2.855	3.15542	3.48737	3.85418	4.25951	4.70741	5.20237	5.74932	6.35374	7.02166
0.95	2.58571	2.85786	3.15857	3.49086	3.85803	4.26377	4.71212	5.20757	5.75507	6.3601	7.02869
0.951	2.5883	2.86072	3.16173	3.49435	3.86189	4.26804	4.71684	5.21278	5.76083	6.36646	7.03572
0.952	2.59089	2.86358	3.1649	3.49785	3.86576	4.27231	4.72156	5.218	5.7666	6.37283	7.04276
0.953	2.59348	2.86645	3.16806	3.50135	3.86963	4.27658	4.72628	5.22322	5.77237	6.37921	7.04981
0.954	2.59607	2.86931	3.17123	3.50485	3.8735	4.28086	4.73101	5.22845	5.77814	6.38559	7.05686
0.955	2.59867	2.87218	3.17441	3.50836	3.87737	4.28514	4.73574	5.23368	5.78392	6.39198	7.06392
0.956	2.60127	2.87506	3.17758	3.51187	3.88125	4.28943	4.74048	5.23891	5.78971	6.39837	7.07099
0.957	2.60387	2.87793	3.18076	3.51538	3.88513	4.29372	4.74522	5.24415	5.7955	6.40477	7.07806
0.958	2.60648	2.88081	3.18394	3.5189	3.88902	4.29802	4.74997	5.2494	5.8013	6.41118	7.08514
0.959	2.60909	2.8837	3.18713	3.52242	3.89291	4.30232	4.75472	5.25465	5.8071	6.4176	7.09223
0.96	2.6117	2.88658	3.19032	3.52594	3.89681	4.30662	4.75948	5.25991	5.81291	6.42402	7.09933
0.961	2.61431	2.88947	3.19351	3.52947	3.90071	4.31093	4.76424	5.26517	5.81873	6.43044	7.10643

0.962	2.61693	2.89236	3.19671	3.533	3.90461	4.31524	4.76901	5.27044	5.82455	6.43688	7.11354
0.963	2.61954	2.89525	3.1999	3.53654	3.90852	4.31956	4.77378	5.27571	5.83038	6.44332	7.12066
0.964	2.62216	2.89815	3.20311	3.54007	3.91243	4.32388	4.77856	5.28099	5.83621	6.44976	7.12778
0.965	2.62479	2.90105	3.20631	3.54362	3.91634	4.32821	4.78334	5.28628	5.84205	6.45622	7.13491
0.966	2.62741	2.90395	3.20952	3.54716	3.92026	4.33254	4.78812	5.29156	5.8479	6.46268	7.14205
0.967	2.63004	2.90686	3.21273	3.55071	3.92418	4.33687	4.79291	5.29686	5.85375	6.46914	7.1492
0.968	2.63267	2.90977	3.21594	3.55426	3.92811	4.34121	4.79771	5.30216	5.8596	6.47561	7.15635
0.969	2.63531	2.91268	3.21916	3.55782	3.93204	4.34556	4.80251	5.30746	5.86547	6.48209	7.16351
0.97	2.63794	2.91559	3.22238	3.56138	3.93597	4.3499	4.80731	5.31277	5.87133	6.48858	7.17068
0.971	2.64058	2.91851	3.22561	3.56494	3.93991	4.35426	4.81212	5.31809	5.87721	6.49507	7.17785
0.972	2.64323	2.92143	3.22883	3.56851	3.94385	4.35861	4.81694	5.32341	5.88309	6.50157	7.18503
0.973	2.64587	2.92435	3.23206	3.57208	3.9478	4.36297	4.82176	5.32874	5.88897	6.50807	7.19222
0.974	2.64852	2.92728	3.2353	3.57565	3.95175	4.36734	4.82658	5.33407	5.89487	6.51458	7.19942
0.975	2.65117	2.93021	3.23853	3.57923	3.9557	4.37171	4.83141	5.3394	5.90076	6.5211	7.20662
0.976	2.65382	2.93314	3.24177	3.58281	3.95966	4.37608	4.83624	5.34475	5.90667	6.52763	7.21383
0.977	2.65647	2.93607	3.24502	3.5864	3.96362	4.38046	4.84108	5.35009	5.91258	6.53416	7.22105
0.978	2.65913	2.93901	3.24826	3.58998	3.96759	4.38484	4.84593	5.35545	5.91849	6.5407	7.22827
0.979	2.66179	2.94195	3.25151	3.59358	3.97155	4.38923	4.85078	5.3608	5.92441	6.54724	7.2355
0.98	2.66446	2.94489	3.25477	3.59717	3.97553	4.39362	4.85563	5.36617	5.93034	6.55379	7.24274
0.981	2.66712	2.94784	3.25802	3.60077	3.97951	4.39802	4.86049	5.37154	5.93628	6.56035	7.24999
0.982	2.66979	2.95079	3.26128	3.60437	3.98349	4.40242	4.86535	5.37691	5.94221	6.56691	7.25724
0.983	2.67246	2.95374	3.26455	3.60798	3.98747	4.40682	4.87022	5.38229	5.94816	6.57348	7.2645
0.984	2.67514	2.9567	3.26781	3.61159	3.99146	4.41123	4.87509	5.38768	5.95411	6.58006	7.27177
0.985	2.67781	2.95966	3.27108	3.6152	3.99546	4.41564	4.87997	5.39307	5.96007	6.58664	7.27905
0.986	2.68049	2.96262	3.27435	3.61882	3.99945	4.42006	4.88485	5.39846	5.96603	6.59323	7.28633
0.987	2.68317	2.96558	3.27763	3.62244	4.00345	4.42448	4.88974	5.40386	5.972	6.59983	7.29362
0.988	2.68586	2.96855	3.28091	3.62606	4.00746	4.42891	4.89463	5.40927	5.97798	6.60643	7.30092
0.989	2.68854	2.97152	3.28419	3.62969	4.01147	4.43334	4.89953	5.41468	5.98396	6.61304	7.30822
0.99	2.69123	2.97449	3.28748	3.63332	4.01548	4.43778	4.90443	5.4201	5.98994	6.61966	7.31553
0.991	2.69393	2.97747	3.29077	3.63696	4.0195	4.44222	4.90934	5.42552	5.99594	6.62628	7.32285
0.992	2.69662	2.98045	3.29406	3.6406	4.02352	4.44666	4.91425	5.43095	6.00193	6.63291	7.33018
0.993	2.69932	2.98343	3.29736	3.64424	4.02755	4.45111	4.91916	5.43638	6.00794	6.63955	7.33751
0.994	2.70202	2.98641	3.30065	3.64789	4.03158	4.45556	4.92409	5.44182	6.01395	6.64619	7.34485
0.995	2.70472	2.9894	3.30396	3.65154	4.03561	4.46002	4.92901	5.44727	6.01997	6.65284	7.3522
0.996	2.70743	2.99239	3.30726	3.65519	4.03965	4.46448	4.93394	5.45272	6.02599	6.65949	7.35956
0.997	2.71014	2.99539	3.31057	3.65885	4.04369	4.46895	4.93888	5.45817	6.03202	6.66616	7.36692
0.998	2.71285	2.99838	3.31388	3.66251	4.04774	4.47342	4.94382	5.46363	6.03805	6.67283	7.37429
0.999	2.71556	3.00138	3.3172	3.66617	4.05179	4.4779	4.94877	5.4691	6.0441	6.6795	7.38167
1	2.71828	3.00439	3.32052	3.66984	4.05584	4.48238	4.95372	5.47457	6.05014	6.68619	7.38906

Задание 11

Составить отчёт о проделанной работе. График функции $u(t, x)$ (Рис. 1).
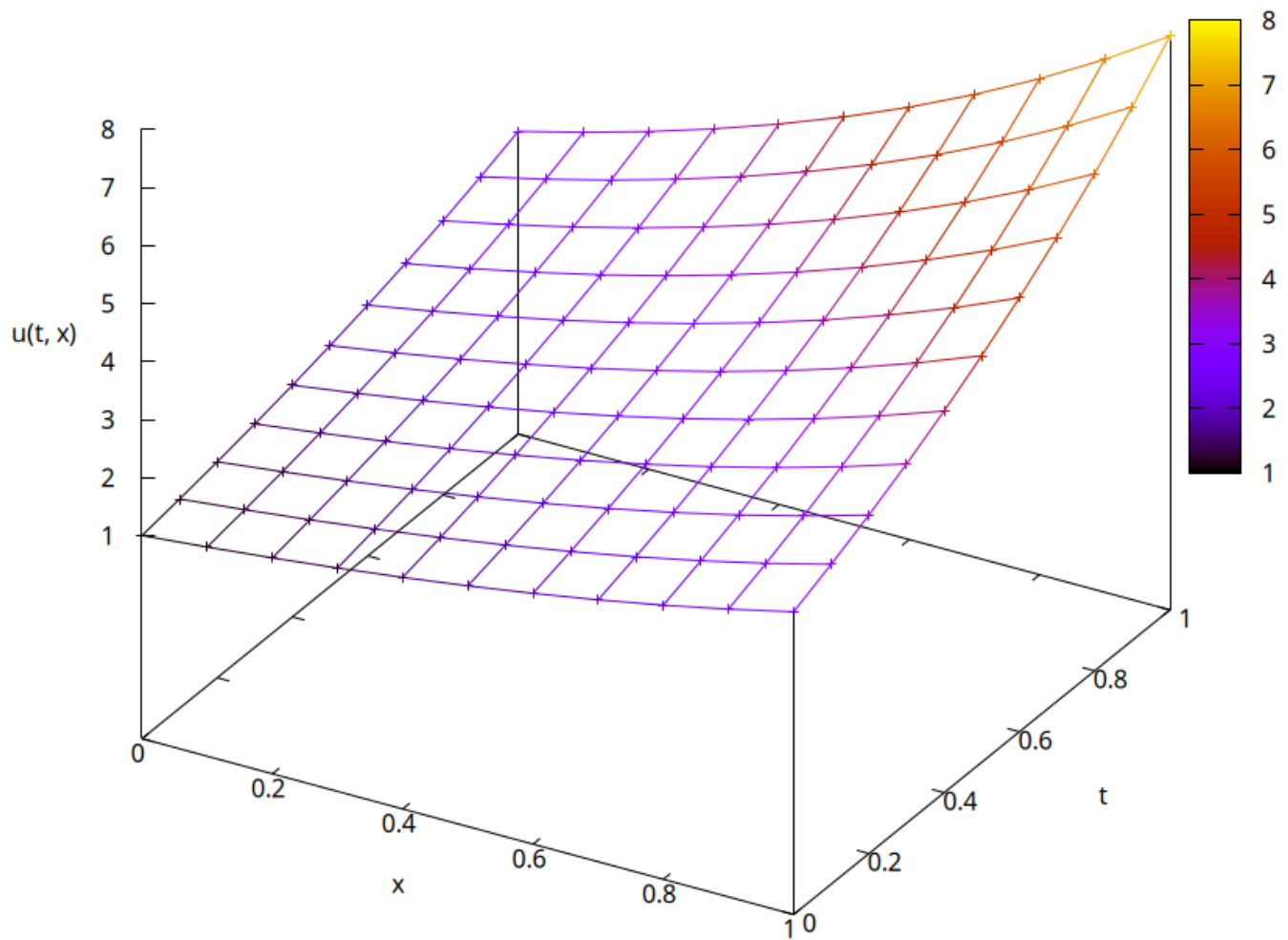
Рис. 1: График функции *u(t, x)*.
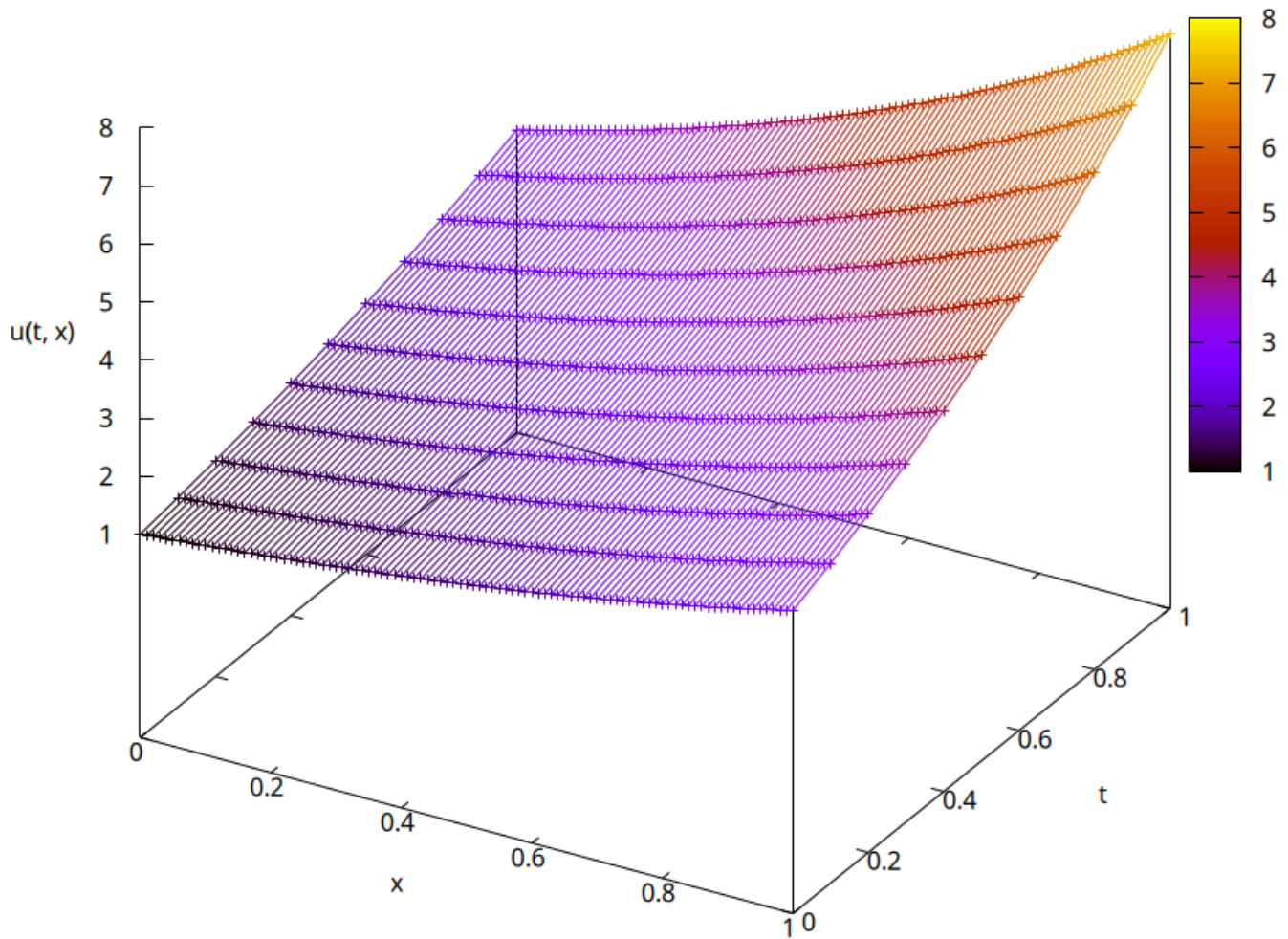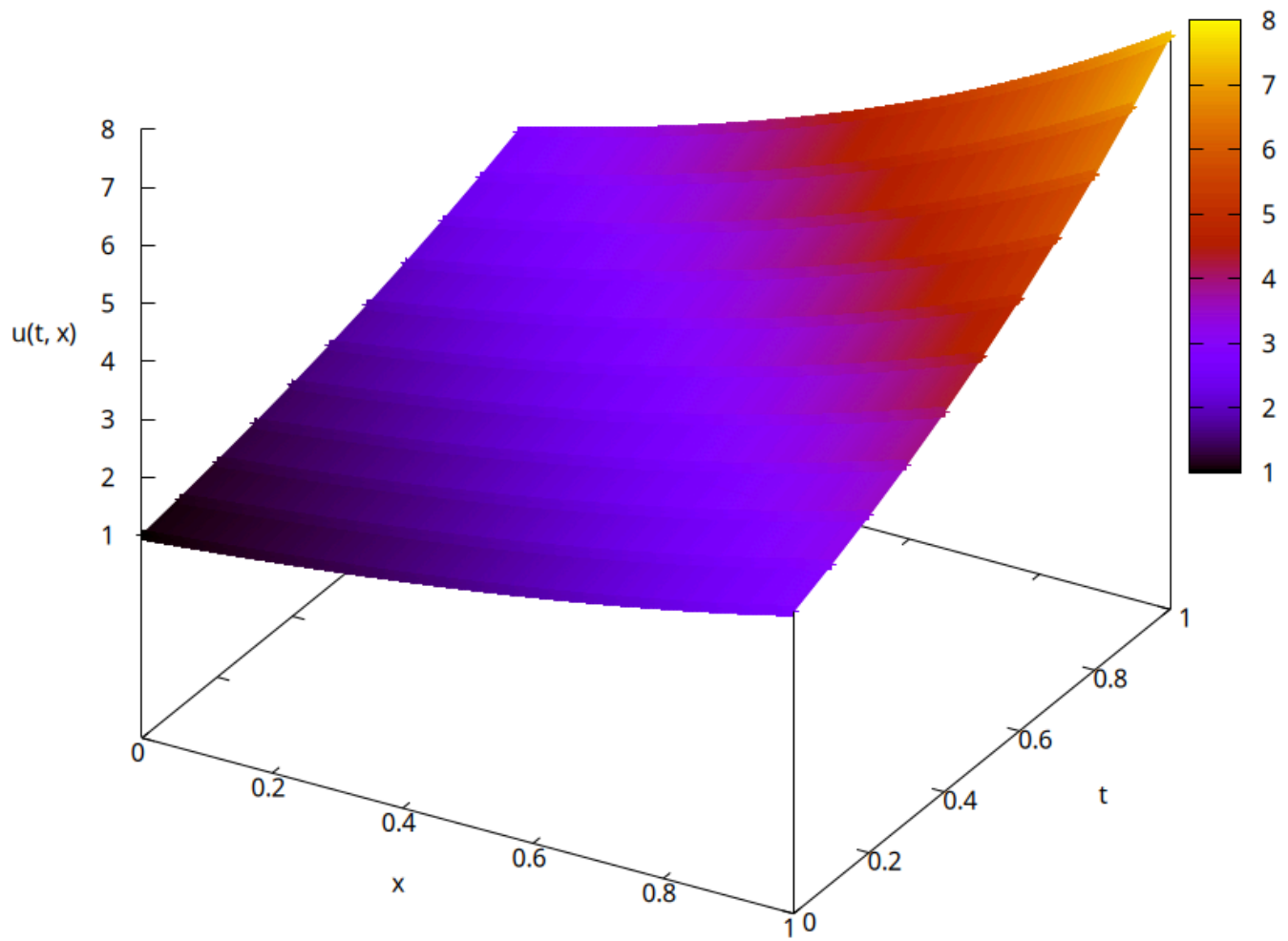
График зависимости u(t, x)

Рис. 2: График функции *u(t, x)*.

График зависимости u(t, x)

Рис. 3: График функции *u(t, x)*.