Министерство науки и высшего образования Российской Федерации Федеральное государственное бюджетное образовательное учреждение высшего образования

«Российский химико-технологический университет имени Д.И. Менделеева»

ОТЧЕТ ПО ЛАБОРАТОРНОЙ РАБОТЕ №1

Вариант 22

Выполнил студент группы КС-36: Золотухин А.А.

Ссылка на репозиторий: https://github.com/

CorgiPuppy/

num-methods-eq-math-phys-chem-labs

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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 явную разностную схему;
- 2. определить порядок аппроксимации разностной схемы;
- 3. получить условие устойчивости разностной схемы на шаг (с помощью метода гармоник);
- 4. вывести рекуррентное соотношение;
- 5. составить алгоритм (блок-схему) расчёта;
- 6. построить программу на любом удобном языке программирования;
- 7. провести численный расчёт с использованием различных значений $\Delta t(0.1, 0.01, 0.001),$ h=0.1;
- 8. составить отчёт о проделанной работе.

Выполнение задачи

Задание 1

Записать явную разностную схему:

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

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

Задание 2

Определить порядок аппроксимации разностной схемы (1):

Для этого запишу разложение значений $u_j^{n+1},\,u_{j+1}^n,\,u_{j-1}^n$ в ряд Тейлора относительно точки $(t^n,\,x_j)$ на разностной сетке:

$$u_j^{n+1} = u_j^n + \frac{\partial u}{\partial t}\Big|_i^n \Delta t + \frac{1}{2!} \frac{\partial^2 u}{\partial t^2}\Big|_i^n (\Delta t)^2 + \frac{1}{3!} \frac{\partial^3 u}{\partial t^3}\Big|_i^n (\Delta t)^3 + \dots,$$
 (2)

$$u_{j+1}^{n} = u_{j}^{n} + \frac{\partial u}{\partial x} \Big|_{j}^{n} h + \frac{1}{2!} \frac{\partial^{2} u}{\partial x^{2}} \Big|_{j}^{n} h^{2} + \frac{1}{3!} \frac{\partial^{3} u}{\partial x^{3}} \Big|_{j}^{n} h^{3} + \frac{1}{4!} \frac{\partial^{4} u}{\partial x^{4}} \Big|_{j}^{n} h^{4} + \dots,$$
(3)

$$u_{j-1}^n = u_j^n - \frac{\partial u}{\partial x}\Big|_i^n h + \frac{1}{2!} \frac{\partial^2 u}{\partial x^2}\Big|_i^n h^2 - \frac{1}{3!} \frac{\partial^3 u}{\partial x^3}\Big|_i^n h^3 + \frac{1}{4!} \frac{\partial^4 u}{\partial x^4}\Big|_i^n h^4 - \dots$$
 (4)

Подставляя зависимости (2)-(4) в разностную схему (1), получаем:

$$\frac{\partial u}{\partial t}\Big|_{j}^{n} + \frac{1}{2} \frac{\partial^{2} u}{\partial t^{2}}\Big|_{j}^{n} \Delta t + \frac{1}{6} \frac{\partial^{3} u}{\partial t^{3}}\Big|_{j}^{n} (\Delta t)^{2} = \frac{\partial^{2} u}{\partial x^{2}}\Big|_{j}^{n} + \frac{1}{12} \frac{\partial^{4} u}{\partial x^{4}}\Big|_{j}^{n} h^{2}.$$

$$\Rightarrow \frac{\partial u}{\partial t}\Big|_{j}^{n} + O(\Delta t) = \frac{\partial^{2} u}{\partial x^{2}}\Big|_{j}^{n} + O(h^{2}).$$

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

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

Задание 3

Получить условие устойчивости разностной схемы на шаг (с помощью метода гармоник):

Представлю решение разностной схемы в виде гармоники:

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

Подставляя (5) в разностную схему (1), получаю:

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

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

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

Преобразую комплексные числа из экспоненциальной формы в тригонометрическую:

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

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 :

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

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

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

В полученном двойном неравенстве правое условие выполняется автоматически. Поэтому рассмотрю более подробно левое условие:

$$1 - \frac{4\Delta t}{h^2} \sin^2 \frac{\alpha}{2} \ge -1 \Rightarrow \frac{\Delta t}{h^2} \sin^2 \frac{\alpha}{2} \le \frac{1}{2}.$$

Задавая для $\sin^2\frac{\alpha}{2}$ максимально возможное значение, равное 1, перехожу к более строгому условию, справедливому для любого α :

$$\frac{\Delta t}{h^2} \sin^2 \frac{\alpha}{2} \le \frac{1}{2} \Rightarrow \frac{\Delta t}{h^2} \le \frac{1}{2}.$$
 (6)

Выражение (6) является условием устойчивости явной разностной схемы, аппроксимирующей одномерное дифференциальное уравнение параболического типа. Такие

разностные схемы, устойчивость которых зависит от какого-либо условия, ограничивающего выбор интервала деления на разностной сетке, называют **условно устойчивыми**.

При $h = 10^{-1}$:

$$\Delta t \le \frac{(10^{-1})^2}{2} \Rightarrow \Delta t \le 5 \cdot 10^{-3}.$$

Задание 4

Вывести рекуррентное соотношение:

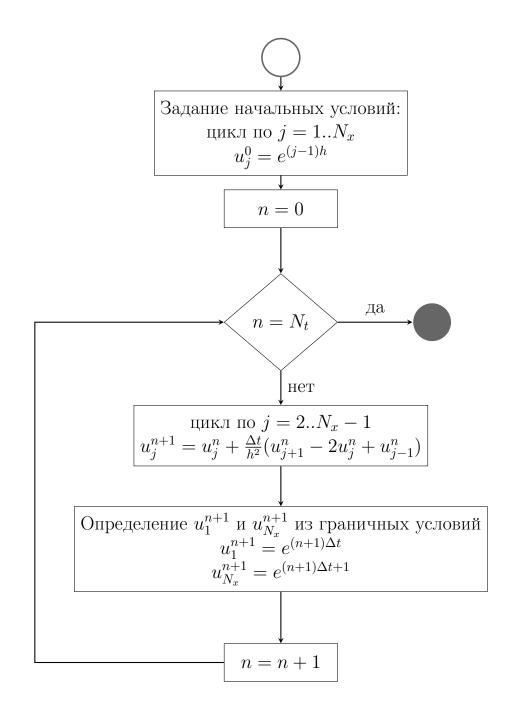
Выражаю из разностной схемы (1) величину u_i^{n+1} :

$$u_j^{n+1} = u_j^n + \frac{\Delta t}{h^2} (u_{j+1}^n - 2u_j^n + u_{j-1}^n).$$
 (7)

Соотношение типа (7), позволяющее рассчитывать значения искомой функции в узлах разностной сетки через известные значения в других узлах разностной сетки, называют рекуррентным соотношением.

Задание 5

Составить алгоритм (блок-схему) расчёта:



Задание 6

Построить программу на любом удобном языке программирования:

```
1 #include <iostream>
2 #include <cmath>
3 #include <fstream>
4

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

6 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];
}</pre>
```

```
14
     for (int i = 0; i < Constants::amount_of_delta_t; i++) {</pre>
15
       double** u = new double*[N_t[i]];
16
       for (int n = 0; n < N_t[i]; n++) {</pre>
17
           u[n] = new double[N_x] \{0.0\};
18
19
20
       for (int j = 0; j \le N_x - 1; j++) {
21
         u[0][j] = std::exp(j * Constants::h);
22
23
24
       int n = 0;
25
       while (!(n == (N_t[i] - 1))) {
26
         for (int j = 1; j \le N_x - 2; j++)
27
           u[n + 1][j] = u[n][j] + (Constants::delta_t[2]) / (std::pow(Constants::h, 2))
       *(u[n][j + 1] - 2 * u[n][j] + u[n][j - 1]);
28
29
         u[n + 1][0] = std::exp((n + 1) * Constants::delta_t[2]);
30
         u[n + 1][N_x - 1] = std::exp((n + 1) * Constants::delta_t[2] + 1);
31
32
         n++;
33
       }
34
35
       std::ofstream csvFile(Constants::csvPath[i]);
36
       csvFile << "t\\x,";</pre>
37
       for (int j = 0; j \le N_x - 1; j++) {
38
         csvFile << j * Constants::h;</pre>
39
          if (j != (N_x - 1)) csvFile << ",";</pre>
40
       }
41
       csvFile << "\n";
42
       for (int n = 0; n < N_t[i]; n++) {</pre>
         double t = (n + 1) * Constants::delta_t[2];
43
44
         csvFile << t << ",";
45
         for (int j = 0; j < N_x; j++) {
46
            csvFile << u[n][j];</pre>
47
           if (j != (N_x - 1)) csvFile << ",";</pre>
48
49
         csvFile << "\n";
50
51
       csvFile.close();
52
53
       std::ofstream plotPath (Constants::plotPath[i]);
54
       for (int n = 0; n <= N_t[i] - 1; n++) {</pre>
55
         double t = n * Constants::delta_t[2];
56
         for (int j = 0; j <= N_x - 1; j++) {</pre>
57
           double x = j * Constants::h;
58
           plotPath << t << " " << x << " " << u[n][j] << "\n";
59
60
         plotPath << "\n";</pre>
61
62
       plotPath.close();
63
64
       for (int n = 0; n < N_t[i]; n++) {</pre>
65
           delete[] u[n];
66
67
       delete[] u;
68
69
70
     return 0;
71 }
```

Задание 6

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

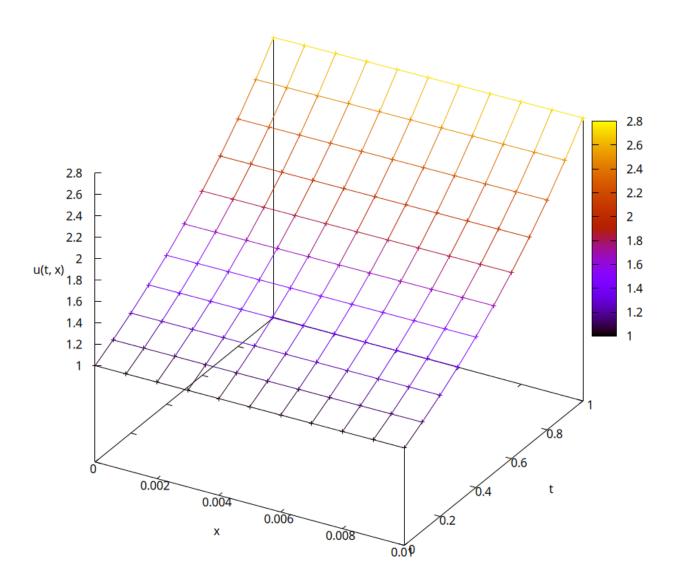
Таблица 1: Результаты

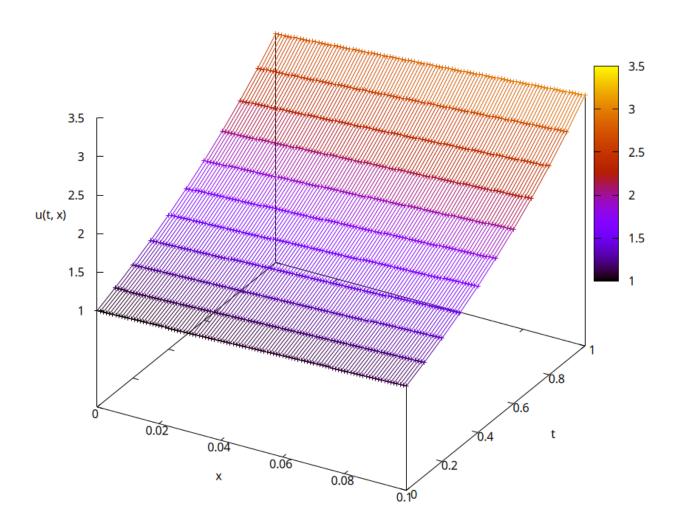
$t \backslash x$	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
0.001	1	1.10517	1.2214	1.34986	1.49182	1.64872	1.82212	2.01375	2.22554	2.4596	2.71828
0.002	1.001	1.10628	1.22263	1.35121	1.49332	1.65037	1.82394	2.01577	2.22777	2.46206	2.721
0.003	1.002	1.10738	1.22385	1.35256	1.49481	1.65202	1.82577	2.01779	2.23	2.46453	2.72372
0.004	1.003	1.10849	1.22507	1.35392	1.49631	1.65368	1.8276	2.01981	2.23223	2.467	2.72645
0.005	1.00401	1.1096	1.2263	1.35527	1.49781	1.65533	1.82942	2.02183	2.23446	2.46946	2.72918
0.006	1.00501	1.11071	1.22753	1.35663	1.4993	1.65699	1.83126	2.02385	2.2367	2.47194	2.73191
0.007	1.00602	1.11182	1.22876	1.35799	1.50081	1.65865	1.83309	2.02588	2.23894	2.47441	2.73464
0.008	1.00702	1.11294	1.22999	1.35934	1.50231	1.66031	1.83492	2.0279	2.24118	2.47689	2.73738
0.009	1.00803	1.11405	1.23122	1.3607	1.50381	1.66197	1.83676	2.02993	2.24342	2.47936	2.74012
0.01	1.00904	1.11516	1.23245	1.36207	1.50532	1.66363	1.8386	2.03196	2.24567	2.48184	2.74286
0.011	1.01005	1.11628	1.23368	1.36343	1.50682	1.6653	1.84044	2.034	2.24791	2.48433	2.7456
	0.001 0.002 0.003 0.004 0.005 0.006 0.007 0.008 0.009 0.01	0.001 1 0.002 1.001 0.003 1.002 0.004 1.003 0.005 1.00401 0.006 1.00501 0.007 1.00602 0.008 1.00702 0.009 1.00803 0.01 1.00904	0.001 1 1.10517 0.002 1.001 1.10628 0.003 1.002 1.10738 0.004 1.003 1.10849 0.005 1.00401 1.1096 0.006 1.00501 1.11071 0.007 1.00602 1.11182 0.008 1.00702 1.11294 0.009 1.00803 1.11405 0.01 1.00904 1.11516	0.001 1 1.10517 1.2214 0.002 1.001 1.10628 1.22263 0.003 1.002 1.10738 1.22385 0.004 1.003 1.10849 1.22507 0.005 1.00401 1.1096 1.2263 0.006 1.00501 1.11071 1.22753 0.007 1.00602 1.11182 1.22876 0.008 1.00702 1.11294 1.22999 0.009 1.00803 1.11405 1.23122 0.01 1.00904 1.11516 1.23245	0.001 1 1.10517 1.2214 1.34986 0.002 1.001 1.10628 1.22263 1.35121 0.003 1.002 1.10738 1.22385 1.35256 0.004 1.003 1.10849 1.22507 1.35392 0.005 1.00401 1.1096 1.2263 1.35527 0.006 1.00501 1.11071 1.22753 1.35663 0.007 1.00602 1.11182 1.22876 1.35799 0.008 1.00702 1.11294 1.22999 1.35934 0.009 1.00803 1.11405 1.23122 1.3607 0.01 1.00904 1.11516 1.23245 1.36207	0.001 1 1.10517 1.2214 1.34986 1.49182 0.002 1.001 1.10628 1.22263 1.35121 1.49332 0.003 1.002 1.10738 1.22385 1.35256 1.49481 0.004 1.003 1.10849 1.22507 1.35392 1.49631 0.005 1.00401 1.1096 1.2263 1.35527 1.49781 0.006 1.00501 1.11071 1.22753 1.35663 1.4993 0.007 1.00602 1.11182 1.22876 1.35799 1.50081 0.008 1.00702 1.11294 1.22999 1.35934 1.50231 0.009 1.00803 1.11405 1.23122 1.3607 1.50381 0.01 1.00904 1.11516 1.23245 1.36207 1.50532	0.001 1 1.10517 1.2214 1.34986 1.49182 1.64872 0.002 1.001 1.10628 1.22263 1.35121 1.49332 1.65037 0.003 1.002 1.10738 1.22385 1.35256 1.49481 1.65202 0.004 1.003 1.10849 1.22507 1.35392 1.49631 1.65368 0.005 1.00401 1.1096 1.2263 1.35527 1.49781 1.65533 0.006 1.00501 1.11071 1.22753 1.35663 1.4993 1.65699 0.007 1.00602 1.11182 1.22876 1.35799 1.50081 1.65865 0.008 1.00702 1.11294 1.22999 1.35934 1.50231 1.66031 0.001 1.00904 1.11516 1.23122 1.3607 1.50381 1.66197 0.01 1.00904 1.11516 1.23245 1.36207 1.50532 1.66363	0.001 1 1.10517 1.2214 1.34986 1.49182 1.64872 1.82212 0.002 1.001 1.10628 1.22263 1.35121 1.49332 1.65037 1.82394 0.003 1.002 1.10738 1.22385 1.35256 1.49481 1.65202 1.82577 0.004 1.003 1.10849 1.22507 1.35392 1.49631 1.65368 1.8276 0.005 1.00401 1.1096 1.2263 1.35527 1.49781 1.65533 1.82942 0.006 1.00501 1.11071 1.22753 1.35663 1.4993 1.65699 1.83126 0.007 1.00602 1.11182 1.22876 1.35799 1.50081 1.65865 1.83309 0.008 1.00702 1.11294 1.22999 1.35934 1.50231 1.66031 1.83492 0.001 1.00904 1.11516 1.23245 1.36207 1.50532 1.66363 1.8386	0.001 1 1.10517 1.2214 1.34986 1.49182 1.64872 1.82212 2.01375 0.002 1.001 1.10628 1.22263 1.35121 1.49332 1.65037 1.82394 2.01577 0.003 1.002 1.10738 1.22385 1.35256 1.49481 1.65202 1.82577 2.01779 0.004 1.003 1.10849 1.22507 1.35392 1.49631 1.65368 1.8276 2.01981 0.005 1.00401 1.1096 1.2263 1.35527 1.49781 1.65533 1.82942 2.02183 0.006 1.00501 1.11071 1.22753 1.35663 1.4993 1.65699 1.83126 2.02385 0.007 1.00602 1.11182 1.22876 1.35799 1.50081 1.65865 1.83309 2.02588 0.008 1.00702 1.11294 1.22999 1.35934 1.50231 1.66031 1.83492 2.0279 0.009 1.00803 1.11405 1.23122 1.3607<	0.001 1 1.10517 1.2214 1.34986 1.49182 1.64872 1.82212 2.01375 2.22554 0.002 1.001 1.10628 1.22263 1.35121 1.49332 1.65037 1.82394 2.01577 2.22777 0.003 1.002 1.10738 1.22385 1.35256 1.49481 1.65202 1.82577 2.01779 2.23 0.004 1.003 1.10849 1.22507 1.35392 1.49631 1.65368 1.8276 2.01981 2.23223 0.005 1.00401 1.1096 1.2263 1.35527 1.49781 1.65533 1.82942 2.02183 2.23446 0.006 1.00501 1.11071 1.22753 1.35663 1.4993 1.65699 1.83126 2.02385 2.2367 0.007 1.00602 1.11182 1.22876 1.35799 1.50081 1.65865 1.83309 2.02588 2.23894 0.008 1.00702 1.11294 1.22999 1.35934 1.50381 1.66197 1.	0.001 1 1.10517 1.2214 1.34986 1.49182 1.64872 1.82212 2.01375 2.22554 2.4596 0.002 1.001 1.10628 1.22263 1.35121 1.49332 1.65037 1.82394 2.01577 2.22777 2.46206 0.003 1.002 1.10738 1.22385 1.35256 1.49481 1.65202 1.82577 2.01779 2.23 2.46453 0.004 1.003 1.10849 1.22507 1.35392 1.49631 1.65368 1.8276 2.01981 2.23223 2.467 0.005 1.00401 1.1096 1.2263 1.35527 1.49781 1.65533 1.82942 2.02183 2.23446 2.46946 0.006 1.00501 1.11071 1.22753 1.35663 1.4993 1.65699 1.83126 2.02385 2.2367 2.47194 0.007 1.00602 1.11182 1.22876 1.35799 1.50081 1.65865 1.83309 2.02588 2.23894 2.47689 0.0

Задание 8

Составить отчёт о проделанной работе. График фукнции $u(t,\,x)$

График зависимости u(t, x)





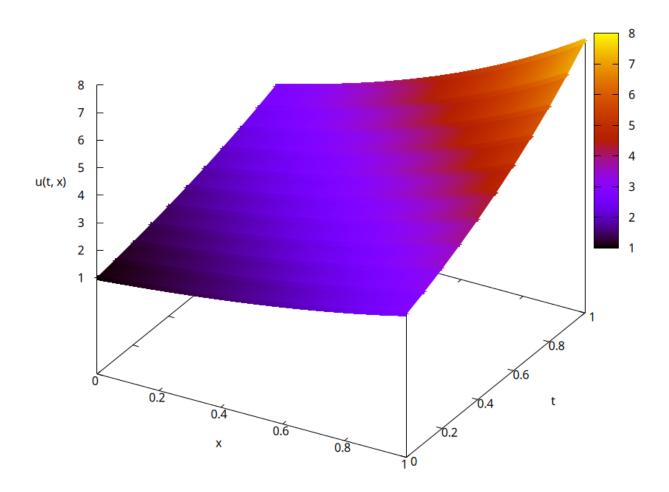


Таблица 2: Результаты

Color	_					Taon	ица 2: Ре	зультать	I				
0.003 1.0002 1.0203 1.0203 1.0203 1.0203 1.0203 2.2237 2.2385 2.3256 1.6368 1.6303 1.8329 2.001 1.003 1.0034 1.2239 1.3539 1.40831 1.6338 1.8276 2.01981 2.2322 2.467 2.2241 0.006 1.00001 1.1006 1.2237 1.35399 1.40831 1.65303 1.8329 2.02385 2.2327 2.47194 2.7318 0.006 1.00001 1.11041 1.22352 1.35799 1.60031 1.8309 2.02375 2.24114 2.47441 2.7440 0.001 1.0000 1.11161 1.23122 1.36071 1.50532 1.66303 1.88309 2.24407 2.4342 2.47890 2.7378 0.011 1.01000 1.11161 1.23345 1.36061 1.56694 1.66603 1.8840 2.03603 2.24607 2.1432 2.7378 0.012 1.0100 1.11761 1.23365 1.36661 1.56841 1.66603 1.88		$t \backslash x$	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
0.004 1.008 1.0094 1.0298 1.2295 1.36950 1.49481 1.66308 1.8577 2.01791 2.232 2.46363 2.72644 0.006 1.00601 1.11006 1.2263 1.35678 1.49781 1.66363 1.83942 2.02183 2.23446 2.46464 2.73141 0.006 1.00601 1.11101 1.22753 1.35679 1.50031 1.68663 1.83902 2.22382 2.2471 2.73141 0.006 1.00608 1.11101 1.23242 1.36071 1.50031 1.68067 1.83492 2.24712 2.4118 2.74582 0.011 1.0004 1.11101 1.23365 1.36343 1.50682 1.6633 1.83462 2.03192 2.44572 2.48184 2.7450 0.011 1.0106 1.11152 1.23365 1.36616 1.50984 1.66533 1.84122 2.03032 2.24462 2.48384 2.74561 0.013 1.0106 1.11152 1.23365 1.36365 1.51155 1.67633		0.001	1	1.10517	1.2214	1.34986	1.49182	1.64872	1.82212	2.01375	2.22554	2.4596	2.71828
0.0001 1.0030 1.00891 1.22691 1.325927 1.49781 1.65333 8.82972 2.01281 2.23224 2.4686 2.72914 0.0006 1.00601 1.11071 1.22733 1.35683 1.49081 1.65333 1.83912 2.02385 2.23446 2.4686 2.73148 0.0007 1.00602 1.111291 1.22896 1.35391 1.50311 1.60301 1.83102 2.02375 2.24141 2.47441 2.7346 0.001 1.00603 1.11105 1.23122 1.36077 1.50381 1.66031 1.83962 2.24182 2.24767 2.47814 2.7358 2.7302 0.011 1.0100 1.11162 1.23345 3.66071 1.50852 1.66331 1.8104 2.034 2.24167 2.4833 2.7450 0.012 1.0110 1.1175 1.12349 1.36616 1.59841 1.66863 1.8482 2.03603 2.25467 2.41913 2.4333 2.3751 0.011 1.01031 1.12276 1.23383 <td></td> <td>0.002</td> <td>1.001</td> <td>1.10628</td> <td>1.22263</td> <td>1.35121</td> <td>1.49332</td> <td>1.65037</td> <td>1.82394</td> <td>2.01577</td> <td>2.22777</td> <td>2.46206</td> <td>2.721</td>		0.002	1.001	1.10628	1.22263	1.35121	1.49332	1.65037	1.82394	2.01577	2.22777	2.46206	2.721
0.006 1.00601 1.10706 1.2235 3.25572 1.4781 1.66569 3.82942 2.21852 2.2367 2.7191 2.7310 0.006 1.00702 1.11129 1.22356 1.35799 1.50081 1.68865 1.8303 2.02585 2.23691 2.47111 2.73161 0.006 1.00702 1.11105 1.22322 1.5007 1.50381 1.68865 1.83092 2.22772 2.24112 2.47680 2.73161 0.006 1.0000 1.11105 1.23224 5.0077 1.50381 1.60637 1.8366 2.02996 2.24181 2.47608 2.75116 0.0010 1.0000 1.11152 1.23365 1.36814 1.6063 1.8444 2.0380 2.24972 2.48181 2.7516 0.0100 1.0010 1.11162 1.23365 1.36666 1.50841 1.6663 1.84442 2.03903 2.25162 2.48381 2.7516 0.0100 1.01141 1.12107 1.11852 1.68041 1.68083 1.8412 2.03903 2.25102 2.4833 2.7511 2.020		0.003	1.002	1.10738	1.22385	1.35256	1.49481	1.65202	1.82577	2.01779	2.23	2.46453	2.72372
0.006 0.0501 1.1071 1.2273 1.35603 1.4993 1.6985 1.83190 2.02385 2.39894 2.47144 2.3444 0.008 1.00702 1.11294 1.22990 1.39344 1.50231 1.66081 1.83490 2.2279 2.24118 2.47689 2.74012 0.001 1.00004 1.11166 1.22324 1.30207 1.50338 1.66031 1.8366 2.02993 2.24312 2.47692 2.74012 0.011 1.0106 1.1116 1.23294 1.360479 1.50336 1.66636 1.84942 2.0393 2.25016 2.46812 2.74651 0.012 1.0106 1.1171 1.23192 1.36161 1.50984 1.66636 1.84412 2.03807 2.25162 1.24818 2.74850 0.012 1.0101 1.12076 1.23393 1.37307 1.51436 1.67361 1.84789 2.04121 2.25919 2.49792 2.75936 0.017 1.01613 1.12241 1.24235 1.3730 1.51589		0.004	1.003	1.10849	1.22507	1.35392	1.49631	1.65368	1.8276	2.01981	2.23223	2.467	2.72645
0.008 1.011126 2.2256 3.3759 1.50081 1.65081 1.63309 2.02588 2.23899 2.47441 2.73468 2.7378 2.0009 1.00803 1.11405 1.22312 1.3607 1.50331 1.60331 1.83676 2.02993 2.21312 2.47930 2.74012 0.01 1.00804 1.11516 1.22342 1.36373 1.50532 1.66331 1.85861 2.01916 2.21312 2.47931 2.48133 2.7516 0.012 1.01006 1.1174 1.23492 1.36373 1.50831 1.66680 1.8412 2.03007 2.25212 2.48133 2.7516 0.013 1.01041 1.1276 1.23411 1.3716 1.50831 1.67673 1.81872 2.0101 2.25402 2.49179 2.75661 0.015 1.01613 1.1218 1.23235 1.37301 1.51438 1.67578 1.81967 2.0412 2.26371 2.5178 2.76459 0.018 1.02175 1.24143 1.37776 1.52045 1.663		0.005	1.00401	1.1096	1.2263	1.35527	1.49781	1.65533	1.82942	2.02183	2.23446	2.46946	2.72918
0.008 1.07070 1.11204 1.23990 3.3934 1.50231 1.66197 1.83676 2.02939 2.24342 2.47639 2.71012 0.001 1.00004 1.11165 1.23245 1.30207 1.50381 1.66197 1.83676 2.02939 2.24362 2.47639 2.71012 0.011 1.01006 1.11628 1.23368 1.303479 1.50382 1.66363 1.83404 2.0344 2.24507 2.44831 2.7460 0.010 1.01061 1.1171 1.23392 1.36678 1.50984 1.66686 1.85457 2.0011 2.5667 2.4919 2.73585 0.016 1.01511 1.2128 1.23387 1.37367 1.51481 1.67365 1.84567 2.0412 2.26182 2.9979 2.73585 0.017 1.01613 1.1218 1.22387 1.37707 1.5141 1.67365 1.84567 2.0412 2.26145 2.99782 2.76721 0.017 1.01613 1.12288 1.23391 1.37348 1.51839 <td></td> <td>0.006</td> <td>1.00501</td> <td>1.11071</td> <td>1.22753</td> <td>1.35663</td> <td>1.4993</td> <td>1.65699</td> <td>1.83126</td> <td>2.02385</td> <td>2.2367</td> <td>2.47194</td> <td>2.73191</td>		0.006	1.00501	1.11071	1.22753	1.35663	1.4993	1.65699	1.83126	2.02385	2.2367	2.47194	2.73191
0.001 1.00803 1.11405 2.2212 1.3607 1.50381 1.66137 1.8876 2.02908 2.24457 2.47336 2.74102 0.011 1.01005 1.11628 1.23368 1.36343 1.50882 1.6633 1.84044 2.034 2.24791 2.4831 2.7456 0.013 1.01007 1.1152 1.23615 1.36616 1.50981 1.66863 1.81412 2.03071 2.25212 2.24333 2.7511 0.014 1.01308 1.11964 1.23739 1.36353 1.5155 1.6703 1.84572 2.0411 2.25637 2.49199 2.7561 0.015 1.0141 1.2076 2.3883 1.36389 1.5126 1.67187 1.84752 2.0121 2.26712 2.26782 2.26712 2.0101 2.01578 2.01787 2.01678 2.01787 2.01782 2.26712 2.26782 2.26772 2.20178 2.26782 2.26772 2.20178 2.20178 2.26772 2.20178 2.20178 2.26772 2.20178 2.		0.007	1.00602	1.11182	1.22876	1.35799	1.50081	1.65865	1.83309	2.02588	2.23894	2.47441	2.73464
0.001 1.00803 1.11405 2.2212 1.3607 1.50381 1.66137 1.8876 2.02908 2.24457 2.47336 2.74102 0.011 1.01005 1.11628 1.23368 1.36343 1.50882 1.6633 1.84044 2.034 2.24791 2.4831 2.7456 0.013 1.01007 1.1152 1.23615 1.36616 1.50981 1.66863 1.81412 2.03071 2.25212 2.24333 2.7511 0.014 1.01308 1.11964 1.23739 1.36353 1.5155 1.6703 1.84572 2.0411 2.25637 2.49199 2.7561 0.015 1.0141 1.2076 2.3883 1.36389 1.5126 1.67187 1.84752 2.0121 2.26712 2.26782 2.26712 2.0101 2.01578 2.01787 2.01678 2.01787 2.01782 2.26712 2.26782 2.26772 2.20178 2.26782 2.26772 2.20178 2.20178 2.26772 2.20178 2.20178 2.26772 2.20178 2.		0.008	1.00702	1.11294	1.22999	1.35934	1.50231	1.66031	1.83492	2.0279	2.24118	2.47689	2.73738
0.01 1.00904 1.11516 1.22455 1.36207 1.50532 1.66363 1.8386 2.03196 2.24567 2.44184 2.74256 0.012 1.01106 1.1174 1.23492 1.36479 1.50833 1.66696 1.84228 2.03603 2.25016 2.4661 2.74835 0.013 1.01207 1.14852 1.23393 1.36753 1.5135 1.6703 1.84142 2.03603 2.25016 2.4893 2.7511 0.015 1.0141 1.12076 1.23363 1.3689 1.51286 1.67197 1.84782 2.0415 2.25693 2.49492 2.57661 0.016 1.01613 1.1231 1.2111 1.3764 1.51589 1.67532 1.85152 2.04024 2.25693 2.40678 2.576619 0.018 1.01715 1.12412 1.24359 1.37138 1.51741 1.6777 1.85337 2.04024 2.25671 2.50129 2.76129 0.021 1.02022 1.120122 1.24158 1.37576 1.52045 <td></td> <td>0.009</td> <td>1.00803</td> <td></td> <td>1.23122</td> <td>1.3607</td> <td>1.50381</td> <td>1.66197</td> <td>1.83676</td> <td>2.02993</td> <td>2.24342</td> <td>2.47936</td> <td>2.74012</td>		0.009	1.00803		1.23122	1.3607	1.50381	1.66197	1.83676	2.02993	2.24342	2.47936	2.74012
0.012 0.1005 1.11628 1.23368 1.36343 1.56682 1.6663 1.84044 2.034 2.24791 2.4843 2.7456 0.013 1.01207 1.11852 1.23015 1.36616 1.50984 1.66803 1.84412 2.03307 2.25467 2.4893 2.7511 0.015 1.0141 1.12078 1.23361 1.5185 1.6703 1.84597 2.04011 2.25467 2.4919 2.75385 0.016 1.01414 1.12076 1.23863 1.3686 1.5186 1.6703 1.84567 2.0412 2.25697 2.4029 2.75661 0.017 1.01613 1.1212 1.2435 1.37301 1.51741 1.677 1.85337 2.0422 2.26371 2.50178 2.76689 0.018 1.01373 1.24484 1.37743 1.51741 1.677 1.85337 2.0422 2.6371 2.50178 2.76189 0.021 1.0212 1.12536 1.24384 1.51831 1.52931 1.68604 1.85294			!		1.23245				1.8386				
0.012 0.1106 1.1174 123492 1.36479 1.5083 1.66696 1.8422 2.03803 2.25016 2.48681 2.74835 0.013 1.01207 1.11852 1.23615 1.36666 1.50984 1.66863 1.84412 2.03807 2.25467 2.49179 2.75385 0.016 1.0111 1.12064 1.23739 1.36733 1.51286 1.67197 1.84782 2.04215 2.25693 2.49179 2.75681 0.016 1.01511 1.12183 1.24111 1.3704 1.51589 1.67632 1.85152 2.04624 2.25693 2.49282 2.76212 0.018 1.01715 1.12412 1.24355 1.37301 1.51741 1.6777 1.85337 2.04624 2.26671 2.50429 2.76742 0.019 1.01816 1.12255 1.24484 1.37571 1.52917 1.68204 1.85594 2.05684 2.26671 2.5093 2.77819 0.021 1.02124 1.12976 1.24583 1.37813 1.52631													
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0.016 1.01511 1.12188 1.23987 1.37027 1.51438 1.67365 1.84107 2.04624 2.25195 2.49928 2.76212 0.017 1.01613 1.1231 1.24111 1.37164 1.51741 1.67732 1.85152 2.06242 2.26157 2.50178 2.76489 0.019 1.01816 1.12525 1.24359 1.37384 1.51529 1.67868 1.85522 2.05034 2.26977 2.50078 2.77042 0.021 1.0202 1.1275 1.24688 1.37714 1.52197 1.68201 1.85891 2.05415 2.27051 2.5063 2.26363 2.26363 2.26363 2.56763 2.77742 0.021 1.0202 1.12876 1.24885 1.37895 1.52502 1.68641 1.8608 2.05655 2.27506 2.51432 2.77875 0.023 1.02429 1.3209 1.58986 1.58260 1.68704 1.86824 2.06873 2.2818 2.51362 2.77844 0.025 1.02429 1.3202													
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		0.022											
		0.023	1.02224										
		0.024	!	1.13089	1.24983	1.38128	1.52655	1.68709	1.86453	2.06062	2.27734	2.51684	
0.026 1.02532 1.13315 1.25233 1.38404 1.5296 1.69047 1.86826 2.06475 2.2819 2.52188 2.7871 0.027 1.02634 1.13429 1.25558 1.38543 1.53113 1.69216 1.8712 2.06688 2.28418 2.5244 2.78968 0.029 1.0284 1.13656 1.2561 1.3882 1.5342 1.69555 1.87388 2.07095 2.28875 2.52946 2.79547 0.031 1.02942 1.1377 1.25735 1.38959 1.53574 1.69955 1.87575 2.07302 2.29104 2.53199 2.79827 0.031 1.03045 1.13883 1.25861 1.39998 1.53727 1.69895 1.87575 2.07302 2.29144 2.53452 2.80107 0.033 1.03252 1.14111 1.26113 1.39377 1.54035 1.70235 1.88139 2.07925 2.2973 2.5396 2.80667 0.036 1.03565 1.14454 1.26492 1.39796 1.54498 <td></td> <td>0.025</td> <td>1.02429</td> <td>1.13202</td> <td>1.25108</td> <td>1.38266</td> <td>1.52807</td> <td>1.68878</td> <td>1.86639</td> <td>2.06268</td> <td>2.27961</td> <td>2.51936</td> <td></td>		0.025	1.02429	1.13202	1.25108	1.38266	1.52807	1.68878	1.86639	2.06268	2.27961	2.51936	
0.028 1.02737 1.13542 1.25484 1.38681 1.53267 1.69386 1.872 2.06888 2.28646 2.52693 2.79268 0.029 1.02842 1.13656 1.2561 1.3882 1.5342 1.69555 1.87388 2.070952 2.28875 2.52946 2.79547 0.031 1.03045 1.13883 1.25861 1.39998 1.53771 1.69895 1.87763 2.07312 2.29334 2.53159 2.80179 0.032 1.03149 1.13997 1.25987 1.39377 1.54381 1.70065 1.87951 2.07718 2.29334 2.53452 2.80107 0.033 1.03252 1.4111 1.26113 1.39377 1.54035 1.70055 1.88139 2.07925 2.29393 2.5366 2.80667 0.035 1.03458 1.14434 1.26366 1.39566 1.54489 1.70405 1.88519 2.0832 2.5468 2.81219 0.035 1.0366 1.14644 1.26492 1.39935 1.5463 1.70747<		0.026	1.02532	1.13315	1.25233	1.38404	1.5296	1.69047	1.86826	2.06475	2.2819	2.52188	2.7871
0.029 1.0284 1.13656 1.2561 1.3882 1.5342 1.69555 1.87388 2.07095 2.28875 2.52946 2.79547 0.031 1.02042 1.1377 1.25735 1.38959 1.53737 1.69725 1.87575 2.07302 2.29334 2.53199 2.79827 0.031 1.03045 1.13897 1.25987 1.39237 1.53881 1.70065 1.87951 2.07718 2.29563 2.53706 2.80387 0.033 1.03252 1.4111 1.26113 1.39377 1.54035 1.70235 1.88139 2.07925 2.29793 2.5396 2.80667 0.034 1.03355 1.1426 1.26299 1.39566 1.54189 1.70405 1.88272 2.08132 2.30253 2.54214 2.80948 0.035 1.03562 1.14454 1.26669 1.39935 1.54653 1.70747 1.88704 2.0855 2.30483 2.54723 2.8111 0.037 1.03666 1.4569 1.26714 1.40075 1.54807 </td <td></td> <td>0.027</td> <td>1.02634</td> <td>1.13429</td> <td>1.25358</td> <td>1.38543</td> <td>1.53113</td> <td>1.69216</td> <td>1.87013</td> <td>2.06681</td> <td>2.28418</td> <td>2.5244</td> <td>2.78988</td>		0.027	1.02634	1.13429	1.25358	1.38543	1.53113	1.69216	1.87013	2.06681	2.28418	2.5244	2.78988
0.03 1.02942 1.1377 1.25735 1.38959 1.53574 1.69725 1.87575 2.07302 2.29104 2.53199 2.79827 0.031 1.03045 1.13883 1.25861 1.39098 1.53727 1.69895 1.8763 2.0751 2.29334 2.53452 2.80107 0.032 1.03049 1.13997 1.25987 1.39237 1.53881 1.70065 1.87951 2.07718 2.29563 2.53766 2.80367 0.034 1.03355 1.14226 1.26239 1.39516 1.5489 1.70405 1.88327 2.08133 2.3023 2.54214 2.80948 0.035 1.03458 1.1434 1.26492 1.39935 1.54631 1.70747 1.88704 2.0855 2.30483 2.54723 2.81719 0.037 1.03666 1.14684 1.26419 1.39935 1.54870 1.71089 1.89081 2.08759 2.30714 2.54723 2.81712 0.038 1.03777 1.4913 1.26619 1.39457 1.54870		0.028	1.02737	1.13542	1.25484	1.38681	1.53267	1.69386	1.872	2.06888	2.28646	2.52693	2.79268
0.031 1.03045 1.13883 1.25861 1.39098 1.53727 1.69895 1.87763 2.0751 2.29334 2.53452 2.80107		0.029	1.0284	1.13656	1.2561	1.3882	1.5342	1.69555	1.87388	2.07095	2.28875	2.52946	2.79547
0.032 1.03149 1.13997 1.25987 1.39237 1.53881 1.70065 1.87951 2.07718 2.29563 2.53706 2.80387 0.033 1.03252 1.14111 1.26113 1.39377 1.54035 1.70235 1.88139 2.07925 2.29793 2.5396 2.80667 0.035 1.03458 1.1424 1.26366 1.39566 1.54498 1.70405 1.88516 2.08343 2.30253 2.54468 2.81229 0.036 1.03562 1.14454 1.26492 1.39796 1.54498 1.70747 1.88704 2.0855 2.30483 2.54723 2.81511 0.037 1.03666 1.14684 1.26745 1.40075 1.54807 1.71089 1.89082 2.08968 2.30945 2.55333 2.82074 0.038 1.0377 1.14913 1.26999 1.40356 1.55171 1.71431 1.89461 2.09177 2.31176 2.55488 2.82356 0.041 1.04981 1.151028 1.27126 1.40496 1		0.03	1.02942	1.1377	1.25735	1.38959	1.53574	1.69725	1.87575	2.07302	2.29104	2.53199	2.79827
0.033 1.03252 1.14111 1.26113 1.39377 1.54035 1.70235 1.88139 2.07925 2.29793 2.5396 2.80667 0.034 1.03355 1.14226 1.26239 1.39516 1.54189 1.70405 1.88327 2.08133 2.30023 2.54214 2.80948 0.035 1.03458 1.14341 1.26696 1.39656 1.54449 1.70576 1.88516 2.08342 2.30253 2.54468 2.81229 0.036 1.03562 1.14454 1.26492 1.39796 1.54498 1.70747 1.88704 2.0855 2.30483 2.54723 2.81511 0.037 1.03666 1.14684 1.26745 1.40075 1.54807 1.71089 1.898893 2.08759 2.30714 2.54723 2.81712 0.038 1.03797 1.14913 1.26999 1.40356 1.55117 1.71431 1.89461 2.09177 2.31176 2.55488 2.82356 0.041 1.04081 1.15143 1.27253 1.40637 <td< td=""><td></td><td>0.031</td><td>1.03045</td><td>1.13883</td><td>1.25861</td><td>1.39098</td><td>1.53727</td><td>1.69895</td><td>1.87763</td><td>2.0751</td><td>2.29334</td><td>2.53452</td><td>2.80107</td></td<>		0.031	1.03045	1.13883	1.25861	1.39098	1.53727	1.69895	1.87763	2.0751	2.29334	2.53452	2.80107
0.034 1.03355 1.14226 1.26239 1.39516 1.54189 1.70405 1.88327 2.08133 2.30023 2.54214 2.80948 0.035 1.03458 1.1434 1.26366 1.39656 1.54344 1.70576 1.88516 2.08342 2.30253 2.54468 2.81229 0.036 1.03562 1.14444 1.26619 1.39935 1.54653 1.70918 1.88893 2.08759 2.30714 2.54977 2.81792 0.038 1.03769 1.14684 1.26745 1.40075 1.54807 1.71089 1.89893 2.08759 2.30714 2.54977 2.81792 0.038 1.03873 1.14798 1.26872 1.40216 1.54962 1.7126 1.89271 2.09177 2.31176 2.55488 2.82356 0.04 1.03977 1.14913 1.26999 1.40356 1.5517 1.71431 1.89461 2.09386 2.31407 2.55744 2.82639 0.041 1.04081 1.15288 1.27126 1.40496 1.		0.032	1.03149	1.13997	1.25987	1.39237	1.53881	1.70065	1.87951	2.07718	2.29563	2.53706	2.80387
0.035		0.033	1.03252	1.14111	1.26113	1.39377	1.54035	1.70235	1.88139	2.07925	2.29793	2.5396	2.80667
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0.037 1.03666 1.14569 1.26619 1.39935 1.54653 1.70918 1.88893 2.08759 2.30714 2.54977 2.81792 0.038 1.03769 1.14684 1.26745 1.40075 1.54807 1.71089 1.89082 2.08968 2.30945 2.55233 2.82074 0.039 1.03873 1.14798 1.26872 1.40216 1.54962 1.7126 1.89271 2.09177 2.31176 2.55488 2.82356 0.04 1.03977 1.14913 1.26999 1.40356 1.55117 1.71631 1.89461 2.09386 2.31407 2.55744 2.82639 0.041 1.04081 1.15028 1.27126 1.40496 1.55273 1.71603 1.8965 2.09596 2.31639 2.55999 2.82922 0.042 1.04185 1.15143 1.2753 1.40677 1.55584 1.71796 1.8984 2.09806 2.31871 2.56256 2.83205 0.043 1.04289 1.15258 1.27811 1.55584 1.7		0.035	1.03458	1.1434	1.26366	1.39656	1.54344	1.70576	1.88516	2.08342	2.30253	2.54468	2.81229
0.038 1.03769 1.14684 1.26745 1.40075 1.54807 1.71089 1.89082 2.08968 2.30945 2.55233 2.82074 0.039 1.03873 1.14798 1.26872 1.40216 1.54962 1.7126 1.89271 2.09177 2.31176 2.55488 2.82356 0.04 1.03977 1.14913 1.26999 1.40356 1.55117 1.71431 1.89461 2.09386 2.31407 2.55744 2.82639 0.041 1.04081 1.15028 1.27126 1.40496 1.55273 1.71603 1.8965 2.09596 2.31639 2.55999 2.82922 0.042 1.04185 1.15143 1.27253 1.40677 1.55428 1.71775 1.8984 2.09806 2.31639 2.56526 2.83205 0.043 1.04289 1.15584 1.27758 1.40778 1.555895 1.72191 1.9002 2.10026 2.3235 2.56769 2.83772 0.045 1.04498 1.15489 1.27636 1.4106 1.55		0.036	1.03562	1.14454	1.26492	1.39796	1.54498		1.88704	2.0855	2.30483	2.54723	2.81511
0.039		0.037	1.03666	1.14569	1.26619	1.39935	1.54653	1.70918	1.88893	2.08759	2.30714	2.54977	2.81792
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0.042		0.04	1.03977	1.14913	1.26999	1.40356		1.71431	1.89461	2.09386	2.31407	2.55744	2.82639
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		0.057	1.0576	1.10884	1.29177	1.42763	1.57778	1.74371	1.9271	2.12977	2.35375	2.60129	2.87485

Таблица 3: Результаты

0.002 1.001 1.0062 1.02283 1.35212 1.48981 1.65027 1.82797 2.01777 2.2272 2.4696 2.7737 0.004 1.003 1.0849 1.22387 1.35289 1.49881 1.63308 1.8276 2.01981 2.2323 2.4674 2.7241 0.005 1.00601 1.1071 1.2263 1.35287 1.49081 1.65861 1.83102 2.02835 2.2387 2.47141 2.7346 0.006 1.00501 1.11291 1.22899 1.35091 1.50831 1.65861 1.83102 2.02835 2.23874 2.47141 2.7346 0.001 1.0004 1.11161 1.23245 1.36607 1.50632 1.66331 1.8366 2.02933 2.24162 2.44948 2.4728 0.011 1.01005 1.11428 1.2336 1.36661 1.50882 1.66331 1.8484 2.24367 2.48133 2.74533 0.012 1.01005 1.11248 1.23361 1.36661 1.50842 1.66626					Taon	ица э. т е	езультать	1				
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	0.018	1.01715	1.12412	1.24235	1.37301	1.51741	1.677	1.85337	2.04829	2.26371	2.50178	2.76489
	0.019	1.01816	1.12525	1.24359	1.37438	1.51893	1.67868	1.85522	2.05034	2.26597	2.50429	2.76765
	0.02	1.01918	1.12637	1.24484	1.37576	1.52045	1.68036	1.85708	2.05239	2.26824	2.50679	2.77042
	0.021	1.0202	1.1275	1.24608	1.37714	1.52197	1.68204	1.85894	2.05445	2.27051	2.5093	2.77319
	0.022	1.02122	1.12863	1.24733	1.37851	1.52349	1.68372	1.8608	2.0565	2.27278	2.51181	2.77597
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0.041 1.04081 1.15028 1.27126 1.40496 1.55273 1.71603 1.8965 2.09596 2.31639 2.55999 2.82922 0.042 1.04185 1.15143 1.27253 1.40637 1.55428 1.71775 1.8984 2.09806 2.31871 2.56256 2.83205 0.043 1.04289 1.15258 1.27381 1.40778 1.55584 1.71946 1.9003 2.10016 2.32103 2.56512 2.83488 0.044 1.04394 1.15374 1.27508 1.40919 1.55739 1.72119 1.9022 2.1026 2.32335 2.56769 2.83772 0.045 1.04498 1.15489 1.27636 1.4106 1.55895 1.72291 1.90411 2.10436 2.32567 2.57026 2.84056 0.046 1.04603 1.1572 1.27891 1.41342 1.56051 1.72463 1.90601 2.10647 2.328 2.57283 2.8434 0.049 1.04917 1.15752 1.28148 1.41625 1.5652 </td <td>0.039</td> <td>1.03873</td> <td>1.14798</td> <td>1.26872</td> <td>1.40216</td> <td>1.54962</td> <td>1.7126</td> <td>1.89271</td> <td>2.09177</td> <td>2.31176</td> <td>2.55488</td> <td>2.82356</td>	0.039	1.03873	1.14798	1.26872	1.40216	1.54962	1.7126	1.89271	2.09177	2.31176	2.55488	2.82356
0.042 1.04185 1.15143 1.27253 1.40637 1.55428 1.71775 1.8984 2.09806 2.31871 2.56256 2.83205 0.043 1.04289 1.15258 1.27381 1.40778 1.55584 1.71946 1.9003 2.10016 2.32103 2.56512 2.83488 0.044 1.04394 1.15374 1.27508 1.40919 1.55739 1.72119 1.9022 2.10226 2.32335 2.56769 2.83772 0.045 1.04498 1.15489 1.27636 1.4106 1.55895 1.72291 1.90411 2.10436 2.32567 2.57026 2.84056 0.046 1.04603 1.15605 1.27764 1.41201 1.56051 1.72463 1.90601 2.10847 2.328 2.57283 2.8434 0.047 1.04707 1.1572 1.27891 1.41342 1.566207 1.72636 1.90792 2.10857 2.33033 2.5754 2.84609 0.049 1.04917 1.15952 1.28148 1.41625 1.5662	0.04	1.03977	1.14913	1.26999	1.40356	1.55117	1.71431	1.89461	2.09386	2.31407	2.55744	2.82639
0.043 1.04289 1.15258 1.27381 1.40778 1.55584 1.71946 1.9003 2.10016 2.32103 2.56512 2.83488 0.044 1.04394 1.15374 1.27508 1.40919 1.55739 1.72119 1.9022 2.10226 2.32335 2.56769 2.83772 0.045 1.04498 1.15489 1.27636 1.4106 1.55895 1.72291 1.90411 2.10436 2.32567 2.57026 2.84056 0.046 1.04603 1.15605 1.27764 1.41201 1.56051 1.72463 1.90601 2.10647 2.328 2.57283 2.8434 0.047 1.04707 1.1572 1.27891 1.41342 1.56207 1.72636 1.90792 2.10857 2.33033 2.5754 2.84624 0.048 1.04812 1.15836 1.28019 1.41484 1.56324 1.72982 1.91174 2.1128 2.335 2.58056 2.85194 0.05 1.05022 1.16068 1.28276 1.41767 1.56677 <td>0.041</td> <td>1.04081</td> <td>1.15028</td> <td>1.27126</td> <td>1.40496</td> <td>1.55273</td> <td>1.71603</td> <td>1.8965</td> <td>2.09596</td> <td>2.31639</td> <td>2.55999</td> <td>2.82922</td>	0.041	1.04081	1.15028	1.27126	1.40496	1.55273	1.71603	1.8965	2.09596	2.31639	2.55999	2.82922
0.044 1.04394 1.15374 1.27508 1.40919 1.55739 1.72119 1.9022 2.10226 2.32335 2.56769 2.83772 0.045 1.04498 1.15489 1.27636 1.4106 1.55895 1.72291 1.90411 2.10436 2.32567 2.57026 2.84056 0.046 1.04603 1.15605 1.27764 1.41201 1.56051 1.72463 1.90601 2.10647 2.328 2.57283 2.8434 0.047 1.04707 1.1572 1.27891 1.41342 1.56207 1.72636 1.90792 2.10857 2.33033 2.5754 2.84624 0.048 1.04812 1.15836 1.28019 1.41484 1.56364 1.72809 1.90983 2.11068 2.33266 2.57798 2.84909 0.049 1.04917 1.15952 1.28148 1.41625 1.5652 1.72982 1.91174 2.1128 2.335 2.58056 2.85194 0.051 1.05127 1.16184 1.28404 1.41909 1.56834 </td <td>0.042</td> <td>1.04185</td> <td>1.15143</td> <td>1.27253</td> <td>1.40637</td> <td>1.55428</td> <td>1.71775</td> <td>1.8984</td> <td>2.09806</td> <td>2.31871</td> <td>2.56256</td> <td>2.83205</td>	0.042	1.04185	1.15143	1.27253	1.40637	1.55428	1.71775	1.8984	2.09806	2.31871	2.56256	2.83205
0.045 1.04498 1.15489 1.27636 1.4106 1.55895 1.72291 1.90411 2.10436 2.32567 2.57026 2.84056 0.046 1.04603 1.15605 1.27764 1.41201 1.56051 1.72463 1.90601 2.10647 2.328 2.57283 2.8434 0.047 1.04707 1.1572 1.27891 1.41342 1.56207 1.72636 1.90792 2.10857 2.33033 2.5754 2.84624 0.048 1.04812 1.15836 1.28019 1.41484 1.56364 1.72809 1.90983 2.11068 2.33266 2.57798 2.84909 0.049 1.04917 1.15952 1.28148 1.41625 1.5652 1.72982 1.91174 2.1128 2.335 2.58056 2.85194 0.05 1.05022 1.16068 1.28276 1.41767 1.56677 1.73155 1.91365 2.11491 2.33733 2.58514 2.85479 0.051 1.05127 1.16184 1.28404 1.41909 1.56834 </td <td>0.043</td> <td>1.04289</td> <td>1.15258</td> <td>1.27381</td> <td>1.40778</td> <td>1.55584</td> <td>1.71946</td> <td>1.9003</td> <td>2.10016</td> <td>2.32103</td> <td>2.56512</td> <td>2.83488</td>	0.043	1.04289	1.15258	1.27381	1.40778	1.55584	1.71946	1.9003	2.10016	2.32103	2.56512	2.83488
0.046 1.04603 1.15605 1.27764 1.41201 1.56051 1.72463 1.90601 2.10647 2.328 2.57283 2.8434 0.047 1.04707 1.1572 1.27891 1.41342 1.56207 1.72636 1.90792 2.10857 2.33033 2.5754 2.84624 0.048 1.04812 1.15836 1.28019 1.41484 1.56364 1.72809 1.90983 2.11068 2.33266 2.57798 2.84908 0.049 1.04917 1.15952 1.28148 1.41625 1.5652 1.72982 1.91174 2.1128 2.335 2.58056 2.85194 0.05 1.05022 1.16068 1.28276 1.41767 1.56677 1.73155 1.91365 2.11491 2.33733 2.58314 2.85476 0.051 1.05127 1.16184 1.28404 1.41909 1.56834 1.73328 1.91557 2.11703 2.33967 2.58572 2.85765 0.052 1.05232 1.16301 1.28533 1.42051 1.56991<	0.044	1.04394	1.15374	1.27508	1.40919	1.55739	1.72119	1.9022	2.10226	2.32335	2.56769	2.83772
0.046 1.04603 1.15605 1.27764 1.41201 1.56051 1.72463 1.90601 2.10647 2.328 2.57283 2.8434 0.047 1.04707 1.1572 1.27891 1.41342 1.56207 1.72636 1.90792 2.10857 2.33033 2.5754 2.84624 0.048 1.04812 1.15836 1.28019 1.41484 1.56364 1.72809 1.90983 2.11068 2.33266 2.57798 2.84908 0.049 1.04917 1.15952 1.28148 1.41625 1.5652 1.72982 1.91174 2.1128 2.335 2.58056 2.85194 0.05 1.05022 1.16068 1.28276 1.41767 1.56677 1.73155 1.91365 2.11491 2.33733 2.58314 2.85476 0.051 1.05127 1.16184 1.28404 1.41909 1.56834 1.73328 1.91557 2.11703 2.33967 2.58572 2.85765 0.052 1.05232 1.16301 1.28533 1.42051 1.56991<	0.045	1.04498	1.15489	1.27636	1.4106	1.55895	1.72291	1.90411	2.10436	2.32567	2.57026	2.84056
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