Введение в численные методы

Практическая работа

Вариант №5.2

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Математическая постановка задачи

Дана система вида:

$-\gamma * y_{i-1} + 2 * y_i + \gamma * y_{i+1} = f_i$; i = $\overline{1, N-1}$;

$y_0 = f_0$, $y_N = f_N$ $\frac{1}{5} \leq \gamma \leq 1$

Правая часть f_i, где i = $\overline{0, N}$, задана.

Требуется решить систему линейных алгебраических уравнений и найти влияние величины γ на решения при фиксированном N, а также обосновать выбор метода и почему он применим.

Условие задачи:

$\gamma = \frac{1}{3}, \frac{1}{2}, 1$; N = 100, 1000;

$$f = \begin{cases} 0, & \mathrm{i} = \overline{1, 29}; \\ 0.1, & \mathrm{i} = \overline{30, 45}; \\ 0, & \mathrm{i} = \overline{46, N}; \end{cases}$$

Выбор метода решения и обоснование его применимости

Для решения данной задачи я выбрал метод прогонки.

Далее будет приведено его теоретическое изложение:

Пусть задана система линейных алгебраических уравнений вида

(1) $A_i * y_{i-1} + C_i * y_i + B_i * y_{i+1} = F_i$, i = $\overline{1, N-1}$.

с краевыми условиями $y_0 = q_0$, $y_N = q_N$, где A_i , B_i , C_i - коэффициенты, а правые части F_i (i=1,...,n−1) вместе с q_0 , q_N даны.

Используем теперь то, что $y_0 = q_0$, $y_N = q_N$ и подставим их в уравнения. Теперь систему можно будет переписать в виде:

$C_1 * y_1 + B_1 * y_2 = F_1 - A_1 * q_0$

$A_2 * y_1 + C_2 * y_2 + B_1 * y_3 = F_2$

……….

$A_{N-1} * y_{N-2} + C_{N-1} * y_{N-1} = F_{N-1} - B_{N-1} * q_N$

Составим матрицу коэффициентов данной системы:

$$\begin{matrix} C_1 & B_1 & 0 & \dots & 0 & 0 \\ A_2 & C_2 & B_2 & \dots & 0 & 0 \end{matrix}$$

……………………………………..

$$\begin{matrix} 0 & \dots & \dots & A_{N-2} & C_{N-2} & B_{N-2} \\ 0 & \dots & \dots & 0 & A_{N-1} & C_{N-1} \end{matrix}$$

Данная матрица называется трехдиагональной. Системы с трехдиагональными матрицами можно достаточно просто решить с помощью метода прогонки. Данный метод основывается на предположении, что решения системы связаны рекуррентным соотношением:

y_i= $\alpha_{i+1}*y_{i+1}$+ β_{i+1}, где i = $\overline{0, N-1}$. **(2)**

Величины α и β называются прогоночными коэффициентами. Теперь найдем их.

Для этого выразим из предыдущего соотношения **(2)** y_{i-1} и y_i через y_{i+1} и подставим их в исходные уравнения **(1)**:

y_{i-1}= $\alpha_i * y_i$+ β_i = α_i * ($\alpha_{i+1} * y_{i+1}$+ β_{i+1}) + β_i,

A_i * (α_i * ($\alpha_{i+1} * y_{i+1}$+ β_{i+1}) + β_i) + C_i * ($\alpha_{i+1}*y_{i+1}$+ β_{i+1}) + B_i * y_{i+1} - F_i = 0

Сгруппируем коэффициенты при y_{i+1}:

(A_i * α_i * α_{i+1} + C_i * α_{i+1} + B_i) * y_{i+1} + A_i * α_i * β_{i+1} + A_i * β_i + C_i * β_{i+1} - $F_i = 0$, где i = $\overline{1, N-1}$

Данное равенство будет выполнятся независимо от решения, если потребовать следующее:

A_i * α_i * α_{i+1} + C_i * α_{i+1} + B_i = 0

A_i * α_i * β_{i+1} + A_i * β_i + C_i * β_{i+1} - $F_i = 0$

Из этих соотношений составляем рекуррентное соотношение для прогоночных коэффициентов:

$\alpha_{i+1} = \frac{-B_i}{A_i * \alpha_i + C_i}$ $\qquad$ $\beta_{i+1} = \frac{F_i - A_i * \beta_i}{A_i * \alpha_i + C_i}$ $\qquad$ **(3)**

Для выполнения краевых условий (y_0 = q_0) достаточно положить:

α_1 = 0, β_1 = q_0

Далее последовательно находим остальные прогоночные коэффициенты из **(3)**. Теперь пользуемся тем, что $y_N = q_N$ и отсюда, уже в обратном порядке, находим остальные неизвестные по формуле **(2)**.

Теперь приведем обоснование, почему данный метод применим для решения задачи. Для этого сформулируем теорему достаточного условия корректности метода прогонки.

Теорема. Пусть коэффициенты исходной системы **(1)** удовлетворяют неравенствам:

1) $|C_i| \geq |A_i| + |B_i|$, где i = $\overline{2, N-2}$,
2) $|C_{N-1}| > 0$, $|C_1| > 0$, $|A_i| > 0$, $|B_i| > 0$, i = $\overline{2, N-2}$
3) $|C_1| \geq |B_1|$, $|C_{N-1}| \geq |A_{N-1}|$, причем хотя бы одно из неравенств 1), 3) строгое. (Т. е. матрица имеет диагональное преобладание).

Тогда метод прогонки будет применим, причем прогоночные коэффициенты будут удовлетворять неравенствам:

$|\alpha_i| \leq 1$

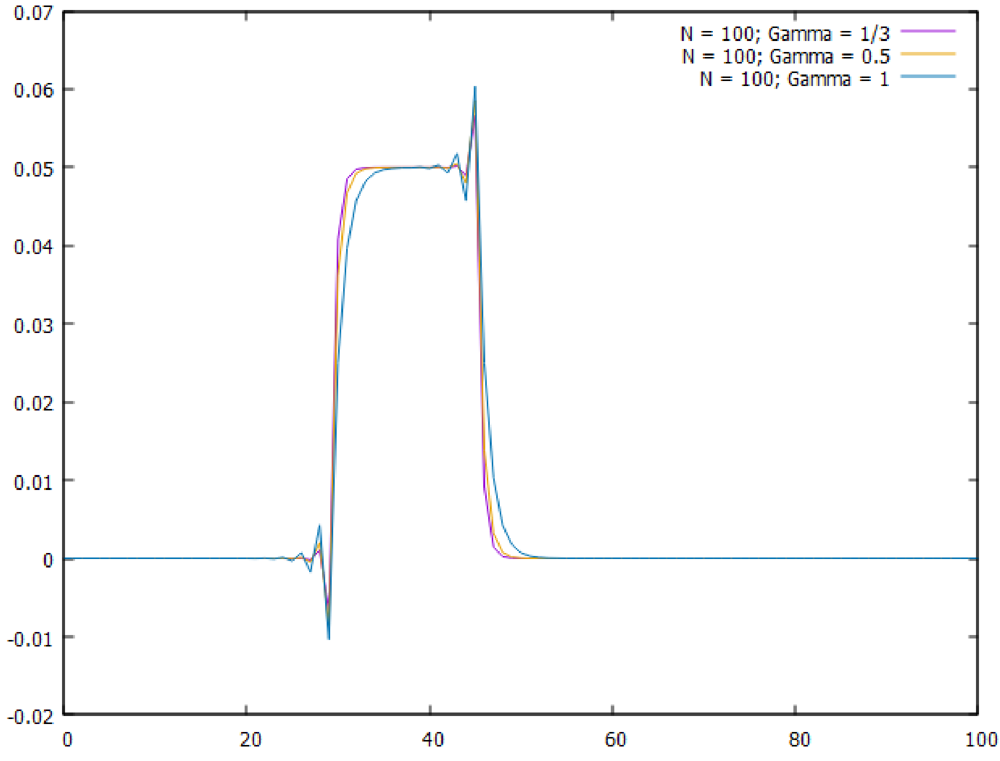
В моей задаче дано, что $\frac{1}{5} \leq \gamma \leq 1$. При данных значениях γ выполняется условие предыдущей теоремы (C = 2, A = -γ, B = γ), следовательно метод прогонки применим. Также заметим, что неравенство $|\alpha_i| \leq 1$ делает прогонку устойчивой, т. е. при вычислениях ошибка из-за округления значений не будет нарастать.

Следует отметить, что метод прогонки достаточно эффективен в области своего применения. Например, сложность вычислений методом Гаусса будет пропорционально N^3, в то время как метод прогонки потребует лишь несколько циклов для вычислений прогоночных коэффициентов, а затем решений, следовательно, сложность вычислений будет пропорциональна N.

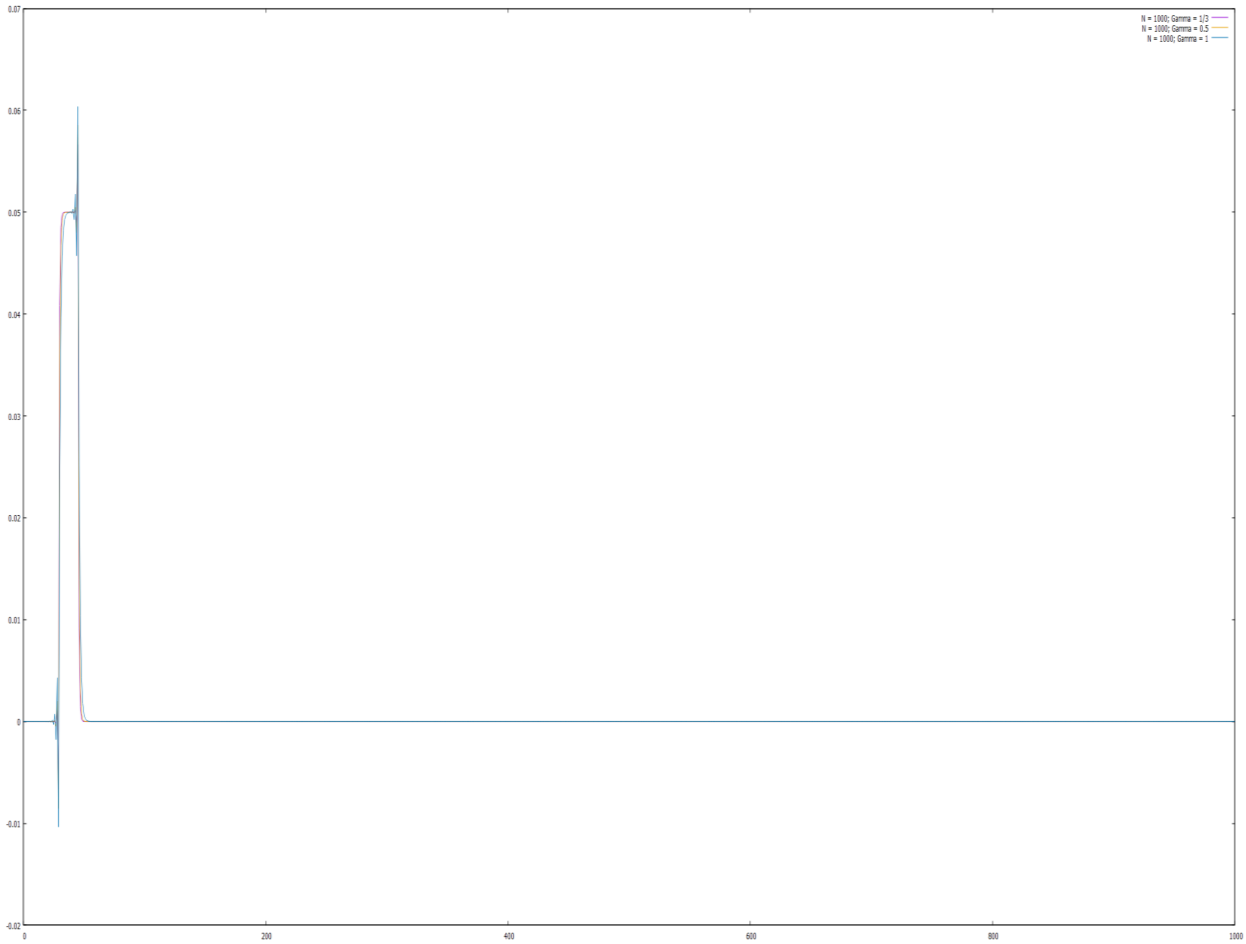
Анализ графиков и влияния γ на решение

На следующих изображениях будут представлены графики решений СЛАУ при фиксированном N, но при разных γ (линия графика для соответствующего γ будет выделена своим цветом и подписана). Для построения графиков использовалась программа gnuplot.

При N = 100:



При N = 1000:



При анализе графиков становится понятно, что с ростом γ незначительно увеличивается различие между соседними решениями (более сильные скачки значений на графике, выделенным синим цветом), но сильного влияния на решения не оказывается. Если сравнить графики для N = 100 и N = 1000, то они окажутся одинаковыми при N от 0 до 100. Это происходит потому, что после 45 номера все уравнения являются однородными независимо от N.

Программная реализация

Ниже будет представлен код программы, написанной на языке C, решающей СЛАУ **(1)** для различных начальных данных (γ и N выбираются посредством ввода с клавиатуры), а также результаты вывода программы на экран в каждом случае:

```
#include <stdio.h>
#include <stdlib.h>
#include <math.h>

//глобальные массивы коэффициентов в методе прогонки, а также массив решений
double arrayOfAlpha[1001];
double arrayOfBeta[1001];
double arrayOfSolutions[1001];

double functions(int index) { //правая часть СЛАУ
    if (index >= 30 && index <= 45) {
        return 0.1;
    } else {
        return 0;
    }
}

void y(int i, int n) { //получение решений
    if (i == 0 || i == n) {
        arrayOfSolutions[i] = functions(i);
    } else {
        arrayOfSolutions[i] = (arrayOfAlpha[i + 1] * arrayOfSolutions[i + 1]
+ arrayOfBeta[i + 1]);
    }
}

void getAlpha(double gamma, int n) { //получение коэффициентов альфа
    for (int i = 0 ; i <= n - 1 ; i++) {
        if (i == 0) {
            arrayOfAlpha[i + 1] = 0;
        } else {
            arrayOfAlpha[i + 1] =(-gamma / ((-gamma) * arrayOfAlpha[ i ] +
2));
        }
    }
}

void getBetta(double gamma, int n) { //получение коэффициентов бетта
    for (int i = 0 ; i <= n - 1 ; i++) {
        if (i == 0) {
            arrayOfBeta[i + 1] = functions(0);
        } else {
            arrayOfBeta[i + 1] = ((functions(i) + gamma * arrayOfBeta[i]) /
((-gamma) * arrayOfAlpha[i] + 2));
        }
    }
}

int main() { //программа решает СЛАУ для заданных значений гамма и N
    int inp = 0;
    double gamma;
    int N;
    printf("Choose gamma: 1) 1/3, 2) 1/2, 3) 1\n"); // Выбор гамма
    scanf("%d", &inp);
    if (inp == 1){
        gamma = exp(-log(3)); // 1/3
```

```
    } else if (inp == 2) {
        gamma = 0.5; // 1/2
    } else if (inp == 3){
        gamma = 1.; // 1
    } else {
        exit(0); // неверный ввод
    }
    printf("Choose N: 1) 100, 2) 1000\n"); // Выбор N
    scanf("%d", &inp);
    if (inp == 1){
        N = 100;
    } else if (inp == 2) {
        N = 1000;
    } else {
        exit(0); // неверный ввод
    }
    printf("N = %d. Gamma = %lf \n\n", N, gamma);
    getAlpha(gamma, N); //коэффициенты, которые нужны для
    getBetta(gamma, N); //метода прогонки
    for (int k = N; k >= 0; k--){ //подсчет решений в обратном порядке
        y (k, N);
    }
    for(int k = 0 ; k <= N ; k++) { //вывод на экран
        printf("y( %d ) %.20lf\n", k, arrayOfSolutions[k]); //точность 20
знаков после запятой
    }
    return 0;
}
```

N = 100, $\gamma = 1/3$:

```
y( 0 ) 0.00000000000000000000
y( 1 ) -0.00000000000000000000
y( 2 ) 0.00000000000000000000
y( 3 ) -0.00000000000000000000
y( 4 ) 0.00000000000000000000
y( 5 ) -0.00000000000000000000
y( 6 ) 0.00000000000000000000
y( 7 ) -0.00000000000000000003
y( 8 ) 0.00000000000000000017
y( 9 ) -0.00000000000000000106
y( 10 ) 0.00000000000000000655
y( 11 ) -0.00000000000000004034
y( 12 ) 0.00000000000000024856
y( 13 ) -0.00000000000000153172
y( 14 ) 0.00000000000000943890
y( 15 ) -0.00000000000005816509
y( 16 ) 0.00000000000035842945
y( 17 ) -0.00000000000220874181
y( 18 ) 0.00000000001361088028
y( 19 ) -0.00000000008387402350
y( 20 ) 0.00000000051685502127
y( 21 ) -0.00000000318500415112
y( 22 ) 0.00000001962687992800
y( 23 ) -0.00000012094628371911
y( 24 ) 0.00000074530458224266
y( 25 ) -0.00000459277377717504
y( 26 ) 0.00002830194724529292
y( 27 ) -0.00017440445724893256
y( 28 ) 0.00107472869073888823
y( 29 ) -0.00662277660168226166
```

```
y( 30 ) 0.04081138830083246016
y( 31 ) 0.04850889359332298534
y( 32 ) 0.04975802674089450928
y( 33 ) 0.04996073314795595327
y( 34 ) 0.04999362785315879937
y( 35 ) 0.04999896602900312514
y( 36 ) 0.04999983167914004434
y( 37 ) 0.04999997595416286189
y( 38 ) 0.04999997595416286189
y( 39 ) 0.05000012022918567944
y( 40 ) 0.04999925457904877413
y( 41 ) 0.05000459275489309297
y( 42 ) 0.04997169804969023299
y( 43 ) 0.05017440445675168392
y( 44 ) 0.04892527130918015998
y( 45 ) 0.05662277660167069904
y( 46 ) 0.00918861169915597721
y( 47 ) 0.00149110640673482818
y( 48 ) 0.00024197325874700766
y( 49 ) 0.00003926685425278223
y( 50 ) 0.00000637213323031427
y( 51 ) 0.00000103405487089658
y( 52 ) 0.00000016780400493481
y( 53 ) 0.00000002723084128770
y( 54 ) 0.00000000441895720859
y( 55 ) 0.00000000071709803619
y( 56 ) 0.00000000011636899142
y( 57 ) 0.00000000001888408764
y( 58 ) 0.00000000000306446556
y( 59 ) 0.00000000000049729430
y( 60 ) 0.00000000000008069976
y( 61 ) 0.00000000000001309577
y( 62 ) 0.00000000000000212515
y( 63 ) 0.00000000000000034486
y( 64 ) 0.00000000000000005596
y( 65 ) 0.00000000000000000908
y( 66 ) 0.00000000000000000147
y( 67 ) 0.00000000000000000024
y( 68 ) 0.00000000000000000004
y( 69 ) 0.00000000000000000001
y( 70 ) 0.00000000000000000000
y( 71 ) 0.00000000000000000000
y( 72 ) 0.00000000000000000000
y( 73 ) 0.00000000000000000000
y( 74 ) 0.00000000000000000000
y( 75 ) 0.00000000000000000000
y( 76 ) 0.00000000000000000000
y( 77 ) 0.00000000000000000000
y( 78 ) 0.00000000000000000000
y( 79 ) 0.00000000000000000000
y( 80 ) 0.00000000000000000000
y( 81 ) 0.00000000000000000000
y( 82 ) 0.00000000000000000000
y( 83 ) 0.00000000000000000000
y( 84 ) 0.00000000000000000000
y( 85 ) 0.00000000000000000000
y( 86 ) 0.00000000000000000000
y( 87 ) 0.00000000000000000000
y( 88 ) 0.00000000000000000000
y( 89 ) 0.00000000000000000000
y( 90 ) 0.00000000000000000000
y( 91 ) 0.00000000000000000000
y( 92 ) 0.00000000000000000000
y( 93 ) 0.00000000000000000000
```

```
y( 94 ) 0.00000000000000000000
y( 95 ) 0.00000000000000000000
y( 96 ) 0.00000000000000000000
y( 97 ) 0.00000000000000000000
y( 98 ) 0.00000000000000000000
y( 99 ) 0.00000000000000000000
y( 100 ) 0.00000000000000000000
```

N = 100, γ = 1/2

```
y( 0 ) 0.00000000000000000000
y( 1 ) -0.00000000000000000003
y( 2 ) 0.00000000000000000010
y( 3 ) -0.00000000000000000043
y( 4 ) 0.00000000000000000181
y( 5 ) -0.00000000000000000766
y( 6 ) 0.00000000000000003246
y( 7 ) -0.00000000000000013751
y( 8 ) 0.00000000000000058249
y( 9 ) -0.00000000000000246747
y( 10 ) 0.00000000000001045236
y( 11 ) -0.00000000000004427689
y( 12 ) 0.00000000000018755993
y( 13 ) -0.00000000000079451663
y( 14 ) 0.00000000000336562644
y( 15 ) -0.00000000001425702237
y( 16 ) 0.00000000006039371593
y( 17 ) -0.00000000025583188609
y( 18 ) 0.00000000108372126029
y( 19 ) -0.00000000459071692724
y( 20 ) 0.00000001944658896927
y( 21 ) -0.00000008237707280431
y( 22 ) 0.00000034895488018652
y( 23 ) -0.00000147819659355040
y( 24 ) 0.00000626174125438812
y( 25 ) -0.00002652516161110290
y( 26 ) 0.00011236238769879972
y( 27 ) -0.00047597471240630180
y( 28 ) 0.00201626123732400690
y( 29 ) -0.00854101966170232874
y( 30 ) 0.03618033988413332097
y( 31 ) 0.04673762080176438460
y( 32 ) 0.04922985667707578672
y( 33 ) 0.04981819409346122107
y( 34 ) 0.04995708030323089965
y( 35 ) 0.04998987288053762662
y( 36 ) 0.04999758878108039040
y( 37 ) 0.04999951775621607614
y( 38 ) 0.04999951775621608308
y( 39 ) 0.05000144673135176188
y( 40 ) 0.04999373083080900504
y( 41 ) 0.05002652340811573894
y( 42 ) 0.04988763719834606730
y( 43 ) 0.05047597461473149472
y( 44 ) 0.04798373873942009260
y( 45 ) 0.05854101965705114929
y( 46 ) 0.01381966011121549612
y( 47 ) 0.00326237921218916049
y( 48 ) 0.00077014326245885244
y( 49 ) 0.00018180616235375098
y( 50 ) 0.00004291861304384840
y( 51 ) 0.00001013171017835738
y( 52 ) 0.00000239177233041886
y( 53 ) 0.00000056462085668194
```

```
y( 54 ) 0.00000013328890369110
y( 55 ) 0.00000003146524191752
y( 56 ) 0.00000000742793602101
y( 57 ) 0.00000000175349783348
y( 58 ) 0.00000000041394468710
y( 59 ) 0.00000000009771908508
y( 60 ) 0.00000000002306834678
y( 61 ) 0.00000000000544569797
y( 62 ) 0.00000000000128555491
y( 63 ) 0.00000000000030347835
y( 64 ) 0.00000000000007164152
y( 65 ) 0.00000000000001691227
y( 66 ) 0.00000000000000399245
y( 67 ) 0.00000000000000094249
y( 68 ) 0.00000000000000022249
y( 69 ) 0.00000000000000005252
y( 70 ) 0.00000000000000001240
y( 71 ) 0.00000000000000000293
y( 72 ) 0.00000000000000000069
y( 73 ) 0.00000000000000000016
y( 74 ) 0.00000000000000000004
y( 75 ) 0.00000000000000000001
y( 76 ) 0.00000000000000000000
y( 77 ) 0.00000000000000000000
y( 78 ) 0.00000000000000000000
y( 79 ) 0.00000000000000000000
y( 80 ) 0.00000000000000000000
y( 81 ) 0.00000000000000000000
y( 82 ) 0.00000000000000000000
y( 83 ) 0.00000000000000000000
y( 84 ) 0.00000000000000000000
y( 85 ) 0.00000000000000000000
y( 86 ) 0.00000000000000000000
y( 87 ) 0.00000000000000000000
y( 88 ) 0.00000000000000000000
y( 89 ) 0.00000000000000000000
y( 90 ) 0.00000000000000000000
y( 91 ) 0.00000000000000000000
y( 92 ) 0.00000000000000000000
y( 93 ) 0.00000000000000000000
y( 94 ) 0.00000000000000000000
y( 95 ) 0.00000000000000000000
y( 96 ) 0.00000000000000000000
y( 97 ) 0.00000000000000000000
y( 98 ) 0.00000000000000000000
y( 99 ) 0.00000000000000000000
y( 100 ) 0.00000000000000000000
```

N = 100, γ = 1

```
y( 0 ) 0.00000000000000000000
y( 1 ) -0.00000000000023238822
y( 2 ) 0.00000000000046477645
y( 3 ) -0.00000000000116194112
y( 4 ) 0.00000000000278865868
y( 5 ) -0.00000000000673925848
y( 6 ) 0.00000000001626717564
y( 7 ) -0.00000000003927360977
y( 8 ) 0.00000000009481439517
y( 9 ) -0.00000000022890240011
y( 10 ) 0.00000000055261919540
y( 11 ) -0.00000000133414079092
y( 12 ) 0.00000000322090077723
y( 13 ) -0.00000000777594234538
```

```
y( 14 ) 0.00000001877278546800
y( 15 ) -0.00000004532151328139
y( 16 ) 0.00000010941581203078
y( 17 ) -0.00000026415313734295
y( 18 ) 0.00000063772208671669
y( 19 ) -0.00000153959731077633
y( 20 ) 0.00000371691670826935
y( 21 ) -0.00000897343072731503
y( 22 ) 0.00002166377816289942
y( 23 ) -0.00005230098705311387
y( 24 ) 0.00012626575226912714
y( 25 ) -0.00030483249159136809
y( 26 ) 0.00073593073545186324
y( 27 ) -0.00177669396249509424
y( 28 ) 0.00428931866044205117
y( 29 ) -0.01035533128337919571
y( 30 ) 0.02499998122720044000
y( 31 ) 0.03964470626221994198
y( 32 ) 0.04571056870276056505
y( 33 ) 0.04822356885669882437
y( 34 ) 0.04926343098936292186
y( 35 ) 0.04969670687797296538
y( 36 ) 0.04987001723341698278
y( 37 ) 0.04995667241113899149
y( 38 ) 0.04995667241113899149
y( 39 ) 0.05004332758886100019
y( 40 ) 0.04987001723341698278
y( 41 ) 0.05030329312202703324
y( 42 ) 0.04926343098936292186
y( 43 ) 0.05177643114330118812
y( 44 ) 0.04571056870276056505
y( 45 ) 0.06035529373778007051
y( 46 ) 0.02499998122720044000
y( 47 ) 0.01035533128337919571
y( 48 ) 0.00428931866044205030
y( 49 ) 0.00177669396249509424
y( 50 ) 0.00073593073545186313
y( 51 ) 0.00030483249159136803
y( 52 ) 0.00012626575226912712
y( 53 ) 0.00005230098705311386
y( 54 ) 0.00002166377816289942
y( 55 ) 0.00000897343072731503
y( 56 ) 0.00000371691670826935
y( 57 ) 0.00000153959731077633
y( 58 ) 0.00000063772208671670
y( 59 ) 0.00000026415313734293
y( 60 ) 0.00000010941581203084
y( 61 ) 0.00000004532151328124
y( 62 ) 0.00000001877278546836
y( 63 ) 0.00000000777594234452
y( 64 ) 0.00000000322090077933
y( 65 ) 0.00000000133414078586
y( 66 ) 0.00000000055261920762
y( 67 ) 0.00000000022890237062
y( 68 ) 0.00000000009481446637
y( 69 ) 0.00000000003927343788
y( 70 ) 0.00000000001626759061
y( 71 ) 0.00000000000673825666
y( 72 ) 0.00000000000279107729
y( 73 ) 0.00000000000115610207
y( 74 ) 0.00000000000047887316
y( 75 ) 0.00000000000019835576
y( 76 ) 0.00000000000008216164
y( 77 ) 0.00000000000003403247
```

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y( 78 ) 0.00000000000001409671
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N = 1000, γ = 1/3

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y( 2 ) 0.00000000000000000000
y( 3 ) -0.00000000000000000000
y( 4 ) 0.00000000000000000000
y( 5 ) -0.00000000000000000000
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y( 7 ) -0.00000000000000000003
y( 8 ) 0.00000000000000000017
y( 9 ) -0.00000000000000000106
y( 10 ) 0.00000000000000000655
y( 11 ) -0.00000000000000004034
y( 12 ) 0.00000000000000024856
y( 13 ) -0.00000000000000153172
y( 14 ) 0.00000000000000943890
y( 15 ) -0.00000000000005816509
y( 16 ) 0.00000000000035842945
y( 17 ) -0.00000000000220874181
y( 18 ) 0.00000000001361088028
y( 19 ) -0.00000000008387402350
y( 20 ) 0.00000000051685502127
y( 21 ) -0.00000000318500415112
y( 22 ) 0.00000001962687992800
y( 23 ) -0.00000012094628371911
y( 24 ) 0.00000074530458224266
y( 25 ) -0.00000459277377717504
y( 26 ) 0.00002830194724529292
y( 27 ) -0.00017440445724893256
y( 28 ) 0.00107472869073888823
y( 29 ) -0.00662277660168226166
y( 30 ) 0.04081138830083246016
y( 31 ) 0.04850889359332298534
y( 32 ) 0.04975802674089450928
y( 33 ) 0.04996073314795595327
y( 34 ) 0.04999362785315879937
y( 35 ) 0.04999896602900312514
y( 36 ) 0.04999983167914004434
y( 37 ) 0.04999997595416286189
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y( 40 ) 0.04999925457904877413
y( 41 ) 0.05000459275489309297
y( 42 ) 0.04997169804969023299
y( 43 ) 0.05017440445675168392
y( 44 ) 0.04892527130918015998
y( 45 ) 0.05662277660167069904
y( 46 ) 0.00918861169915597721
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y( 998 ) 0.00000000000000000000
y( 999 ) 0.00000000000000000000
y( 1000 ) 0.00000000000000000000
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N = 1000, γ = 1/2

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y( 0 ) 0.00000000000000000000
y( 1 ) -0.00000000000000000003
y( 2 ) 0.00000000000000000010
y( 3 ) -0.00000000000000000043
y( 4 ) 0.00000000000000000181
y( 5 ) -0.00000000000000000766
y( 6 ) 0.00000000000000003246
y( 7 ) -0.00000000000000013751
y( 8 ) 0.00000000000000058249
y( 9 ) -0.00000000000000246747
y( 10 ) 0.00000000000001045236
y( 11 ) -0.00000000000004427689
y( 12 ) 0.00000000000018755993
y( 13 ) -0.00000000000079451663
y( 14 ) 0.00000000000336562644
y( 15 ) -0.00000000001425702237
y( 16 ) 0.00000000006039371593
y( 17 ) -0.00000000025583188609
y( 18 ) 0.00000000108372126029
y( 19 ) -0.00000000459071692724
y( 20 ) 0.00000001944658896927
y( 21 ) -0.00000008237707280431
y( 22 ) 0.00000034895488018652
y( 23 ) -0.00000147819659355040
y( 24 ) 0.00000626174125438812
y( 25 ) -0.00002652516161110290
y( 26 ) 0.00011236238769879972
y( 27 ) -0.00047597471240630180
y( 28 ) 0.00201626123732400690
y( 29 ) -0.00854101966170232874
y( 30 ) 0.03618033988413332097
y( 31 ) 0.04673762080176438460
y( 32 ) 0.04922985667707578672
y( 33 ) 0.04981819409346122107
y( 34 ) 0.04995708030323089965
y( 35 ) 0.04998987288053762662
y( 36 ) 0.04999758878108039040
y( 37 ) 0.04999951775621607614
y( 38 ) 0.04999951775621608308
y( 39 ) 0.05000144673135176188
y( 40 ) 0.04999373083080900504
y( 41 ) 0.05002652340811573894
y( 42 ) 0.04988763719834606730
y( 43 ) 0.05047597461473149472
y( 44 ) 0.04798373873942009260
y( 45 ) 0.05854101965705114929
y( 46 ) 0.01381966011121549612
y( 47 ) 0.00326237921218916049
y( 48 ) 0.00077014326245885244
y( 49 ) 0.00018180616235375098
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y( 51 ) 0.00001013171017835738
y( 52 ) 0.00000239177233041886
y( 53 ) 0.00000056462085668194
y( 54 ) 0.00000013328890369110
y( 55 ) 0.00000003146524191752
y( 56 ) 0.00000000742793602101
y( 57 ) 0.00000000175349783348
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y( 58 ) 0.00000000041394468710
y( 59 ) 0.00000000009771908508
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y( 61 ) 0.00000000000544569797
y( 62 ) 0.00000000000128555491
y( 63 ) 0.00000000000030347835
y( 64 ) 0.00000000000007164152
y( 65 ) 0.00000000000001691227
y( 66 ) 0.00000000000000399245
y( 67 ) 0.00000000000000094249
y( 68 ) 0.00000000000000022249
y( 69 ) 0.00000000000000005252
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y( 71 ) 0.00000000000000000293
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y( 997 ) 0.00000000000000000000
y( 998 ) 0.00000000000000000000
y( 999 ) 0.00000000000000000000
y( 1000 ) 0.00000000000000000000
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N = 1000, γ = 1

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y( 0 ) 0.00000000000000000000
y( 1 ) -0.00000000000023238822
y( 2 ) 0.00000000000046477645
y( 3 ) -0.00000000000116194112
y( 4 ) 0.00000000000278865868
y( 5 ) -0.00000000000673925848
y( 6 ) 0.00000000001626717564
y( 7 ) -0.00000000003927360977
y( 8 ) 0.00000000009481439517
y( 9 ) -0.00000000022890240011
y( 10 ) 0.00000000055261919540
y( 11 ) -0.00000000133414079092
y( 12 ) 0.00000000322090077723
y( 13 ) -0.00000000777594234538
```

```
y( 14 ) 0.00000001877278546800
y( 15 ) -0.00000004532151328139
y( 16 ) 0.00000010941581203078
y( 17 ) -0.00000026415313734295
y( 18 ) 0.00000063772208671669
y( 19 ) -0.00000153959731077633
y( 20 ) 0.00000371691670826935
y( 21 ) -0.00000897343072731503
y( 22 ) 0.00002166377816289942
y( 23 ) -0.00005230098705311387
y( 24 ) 0.00012626575226912714
y( 25 ) -0.00030483249159136809
y( 26 ) 0.00073593073545186324
y( 27 ) -0.00177669396249509424
y( 28 ) 0.00428931866044205117
y( 29 ) -0.01035533128337919571
y( 30 ) 0.02499998122720044000
y( 31 ) 0.03964470626221994198
y( 32 ) 0.04571056870276056505
y( 33 ) 0.04822356885669882437
y( 34 ) 0.04926343098936292186
y( 35 ) 0.04969670687797296538
y( 36 ) 0.04987001723341698278
y( 37 ) 0.04995667241113899149
y( 38 ) 0.04995667241113899149
y( 39 ) 0.05004332758886100019
y( 40 ) 0.04987001723341698278
y( 41 ) 0.05030329312202703324
y( 42 ) 0.04926343098936292186
y( 43 ) 0.05177643114330118812
y( 44 ) 0.04571056870276056505
y( 45 ) 0.06035529373778007051
y( 46 ) 0.02499998122720044000
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y( 76 ) 0.00000000000008216164
y( 77 ) 0.00000000000003403247
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y( 80 ) 0.00000000000000241861
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y( 82 ) 0.00000000000000041497
y( 83 ) 0.00000000000000017189
y( 84 ) 0.00000000000000007120
y( 85 ) 0.00000000000000002949
y( 86 ) 0.00000000000000001222
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y( 88 ) 0.00000000000000000210
y( 89 ) 0.00000000000000000087
y( 90 ) 0.00000000000000000036
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y( 996 ) 0.00000000000000000000
y( 997 ) 0.00000000000000000000
y( 998 ) 0.00000000000000000000
y( 999 ) 0.00000000000000000000
y( 1000 ) 0.00000000000000000000
```