```
Задание 1.
Исходные данные:
Случайная непрерывная величина А имеет равномерное распределение на промежутке
(200, 800].
Найдите ее среднее значение и дисперсию.
Решение:
Python 3.8.5 (default, May 27 2021, 13:30:53)
[GCC 9.3.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> import math
>>> from math import fsum
>> a = [200, 300, 400, 500, 600, 700, 800]
>>> math.fsum(a)
3500.0
>> b = (math.fsum(a)) / 7
>>> print(b)
500.0
>>>
Python 3.8.5 (default, May 27 2021, 13:30:53)
[GCC 9.3.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> import math
>>> from math import fsum
>>> a = [(200 - 500) ** 2, (300 - 500) ** 2, (400 - 500) ** 2, (500 - 500) ** 2, (600 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (700 - 500) ** 2, (
500) ** 2, (800 - 500) ** 2]
>>> math.fsum(a)
280000.0
>> b = (math.fsum(a)) / 7
>>> print(b)
40000.0
>>>
>> c = (math.fsum(a)) / (7 - 1)
>>> print(c)
46666.6666666664
>>>
Задание 2.
```

Исходные данные:

О случайной непрерывной равномерно распределенной величине В известно, что ее дисперсия равна 0.2.

```
Можно ли найти правую границу величины В и ее среднее значение зная, что левая граница
равна 0.5?
Если да, найдите ее.
Решение:
Python 3.8.5 (default, May 27 2021, 13:30:53)
[GCC 9.3.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> import math
>>> from math import fsum
>> a = [0.01, 0.01, 0.5, 0.01, 0.01]
>>> math.fsum(a)
0.54
>>> b = [(0.01 - 0.54) ** 2, (0.01 - 0.54) ** 2, (0.5 - 0.54) ** 2, (0.01 - 0.54) ** 2, (0.01 - 0.54) ** 2]
>>> math.fsum(b)
1.12520000000000002
>> c = (math.fsum(b)) / (5 - 1)
>>> print(c)
0.28130000000000005
>>> mode = []
>>> mode.insert(0, 0.5)
>>> print(mode)
[0.5]
>>>
Задание 3.
Исходные данные:
Непрерывная случайная величина X распределена нормально и задана плотностью
распределения
f(x) = (1 / (4 * sqrt(2*pi))) * (exp(-(x+2)**2) / 32).
Найдите:
a). M(X)
б). D(X)
в). std(X) (среднее квадратичное отклонение)
Решение:
a). M(X)
Python 3.8.5 (default, May 27 2021, 13:30:53)
[GCC 9.3.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> import math
>>> import numpy as np
>>> from math import sqrt
```

>>> math.sqrt(2)

```
1.4142135623730951
>>>
>>> from math import pi
>>> math.pi
3.141592653589793
>>>
>>> a = (math.sqrt(2)) * (math.pi)
>>> x = 1
>> b = (-(x + 2)) ** 2
>>> np.exp(b)
8103.083927575384
>> c = (1 / (4 * a)) * (np.exp(b) / 32)
>>> print(c)
14.24870834216118
>>> m = a + b
>>> print(m)
13.442882938158366
>>>
б). D(X)
Python 3.8.5 (default, May 27 2021, 13:30:53)
[GCC 9.3.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> import math
>>> import numpy as np
>>> from math import sqrt
>>> math.sqrt(2)
1.4142135623730951
>>>
>>> from math import pi
>>> math.pi
3.141592653589793
>>>
>> a = (math.sqrt(2)) * (math.pi)
>>> x = 1
>> b = (-(x + 2)) ** 2
>>> np.exp(b)
8103.083927575384
>> c = (1 / (4 * a)) * (np.exp(b) / 32)
>>> print(c)
14.24870834216118
>>> d = b - a
>>> print(d)
```

```
4.557117061841634
>>>
в). std(X) (среднее к
```

в). std(X) (среднее квадратичное отклонение)

Python 3.8.5 (default, May 27 2021, 13:30:53)

[GCC 9.3.0] on linux

Type "help", "copyright", "credits" or "license" for more information.

>>> import math

>>> import numpy as np

>>> from math import sqrt

>>> math.sqrt(2)

1.4142135623730951

>>>

>>> from math import pi

>>> math.pi

3.141592653589793

>>>

>>> a = (math.sqrt(2)) \* (math.pi)

>>> x = 1

>> b = (-(x + 2)) \*\* 2

>>> np.exp(b)

8103.083927575384

>>>

$$>> c = (1 / (4 * a)) * (np.exp(b) / 32)$$

>>> print(c)

14.24870834216118

>>> print(q)

3.442882938158366

>>>

Задание 4.

Исходные данные:

Рост взрослого населения города X имеет нормальное распределение.

Причем, средний рост равен 174 см, а среднее квадратичное отклонение равно 8 см.

Какова вероятность того, что случайным образом выбранный взрослый человек имеет рост:

- а). больше 182 см
- б). больше 190 см
- в). от 166 см до 190 см
- г). от 166 см до 182 см
- д). от 158 см до 190 см
- е). не выше 150 см или не ниже 190 см
- ë). не выше 150 cм или не ниже 198 cм

```
ж). ниже 166 см.
```

Решение:

а). больше 182 см

Python 3.8.5 (default, May 27 2021, 13:30:53)

[GCC 9.3.0] on linux

Type "help", "copyright", "credits" or "license" for more information.

```
>>> a = [120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137,
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Type "help", "copyright", "credits" or "license" for more information.
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120
121
122
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126
127
128
129
130
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132
133
134
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137
138
139
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141
142
143
144
145
146
147
148
149
150
>>>
>>> b = 31 * 34
>>> print(b)
1054
>>> c = 1054 / 3364
>>> print(c)
0.31331747919143876
>>>
>>> for a in range(190, 220):
    print(a)
...
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190
191
192
193
194
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>>> b = 30 * 34
>>> print(b)
1020
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>>> c = 1020 / 3364
>>> print(c)
0.3032104637336504
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ë). не выше 150 cм или не ниже 198 cм
Python 3.8.5 (default, May 27 2021, 13:30:53)
[GCC 9.3.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> a = [120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137,
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>>> b = 31 \* 34

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>>> print(b)
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>>> c = 1054 / 3364
>>> print(c)
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>>> for a in range(198, 220):
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Type "help", "copyright", "credits" or "license" for more information.
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167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183]
>>> for a in range(120, 167):
     print(a)
120
121
122
123
124
125
126
127
128
129
130
131
132
133
134
135
136
137
138
139
140
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147
148
149
150
151
152
153
154
155
156
157
158
159
160
161
162
163
164
165
166
>>> b = 47 * 34
>>> print(b)
1598
>>>
>>> c = 1598 / 3364
>>> print(c)
0.4750297265160523
>>>
Задание 5.
Исходные данные:
На сколько сигм (средних квадратичных отклонений) отклоняется рост человека, равный 190
CM, OT
математического ожидания роста в популяции, в которой M(X) = 178 см и D(X) = 25 кв.см?
Решение:
Python 3.8.5 (default, May 27 2021, 13:30:53)
[GCC 9.3.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> d = 178 ** 2 / 50.613 - 1
>>> print(d)
625.0051765356726
```

```
>>>
>>> d1 = 190 ** 2 / 50.613 - 1
>>> print(d1)
```

712.2554877205461

>>>

>>> f = d1 / d

>>> print(f)

1.1395993416702423

>>>