Codekata Report:

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1. Problem Statement:Write a code to get the input and print it 5 times.

Input Description:A single line contains an integer N.

Output Description:Output contains 5 lines with each line having the value N.

Explanation:The value N has been written 5 times.

Sample Input:4

Sample Output:44444

Input Description:

A single line contains an integer N.

Output Description:

Output contains 5 lines with each line having the value N.

Completion Status: Completed

Concepts Included:

absolute beginner

basics

Looping

Language Used: PYTHON 3

Source Code:

```
vp = input()
for i in range(5):
print(vp)
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

5
5
5
5
5

Compilation Status: Passed

Execution Time:

0.014s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

10
10
10
10
10

Compilation Status: Passed

Execution Time:

0.014s

TestCase3:

Input:

< hidden >

Expected Output:

< hidden >

Output:

99
99
99
99
99

Compilation Status: Passed

Execution Time:

0.014s

TestCase4:

Input:

< hidden >

Expected Output:

< hidden >

Output:

958
958
958
958
958

Compilation Status: Passed

Execution Time:

0.01s

TestCase5:

Input:

< hidden >

Expected Output:

< hidden >

Output:

1000
1000
1000
1000
1000

Compilation Status: Passed

Execution Time:

0.013s

2. Problem Statement:Write a code to get 2 integers A and N. Print the integer A, N times in separate line.

Input Description:First line contains an integer A.Second line contains an Integer N.

Output Description:Print the integer A, N times in a separate line.

Explanation:The integer A(2) is printed N(3) times.

Sample Input:2 3

Sample Output:222

Input Description:

First line contains an integer A.
Second line contains an Integer N.

Output Description:

Print the integer A, N times in a separate line.

Completion Status: Completed

Concepts Included:

absolute beginner

basics

Looping

Language Used: PYTHON 3

Source Code:

```
v,p = map(int,input().split())

for i in range(p):
print(v)
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

5
5
5
5

Compilation Status: Passed

Execution Time:

0.009s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

10
10
10
10
10

Compilation Status: Passed

Execution Time:

0.013s

TestCase3:

Input:

< hidden >

Expected Output:

< hidden >

Output:

5
5
5
5
5
5

Compilation Status: Passed

Execution Time:

0.014s

TestCase4:

Input:

< hidden >

Expected Output:

< hidden >

Output:

9
9
9
9
9
9
9
9
9
9

Compilation Status: Passed

Execution Time:

0.013s

TestCase5:

Input:

< hidden >

Expected Output:

< hidden >

Output:

3

Compilation Status: Passed

Execution Time:

0.014s

3. Problem Statement:Write a code to get an integer N and print values from 1 till N in a separate line.

Input Description:A single line contains an integer N.

Output Description:Print the values from 1 to N in a separate line.

Sample Input:5

Sample Output:12345

Explanation:The values from 1 upto N is printed.

Input Description:

A single line contains an integer N.

Output Description:

Print the values from 1 to N in a separate line.

Completion Status: Completed

Concepts Included:

absolute beginner

basics

Looping

Language Used: PYTHON 3

Source Code:

```
vp = int(input())

for i in range(vp):
print(i+1)
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45

100

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

1
2
3
4
5
6
7
8
9
10

Compilation Status: Passed

Execution Time:

0.015s

TestCase3:

Input:

< hidden >

Expected Output:

< hidden >

Output:

1
2
3
4
5
6
7

8
9

Compilation Status: Passed

Execution Time:

0.013s

TestCase4:

Input:

< hidden >

Expected Output:

< hidden >

Output:

1
2
3

Compilation Status: Passed

Execution Time:

0.014s

TestCase5:

Input:

< hidden >

Expected Output:

< hidden >

Output:

1
2
3
4
5
6
7
8
9
10
11
12
13

14
15

Compilation Status: Passed

Execution Time:

0.014s

4. Problem Statement:Write a code to get an integer N and print the even values from 1 till N in a separate line.

Input Description:A single line contains an integer N.

Output Description:Print the even values from 1 to N in a separate line.

Explanation:The even values from 1 upto N is printed.

Sample Input:6

Sample Output:246

Input Description:

A single line contains an integer N.

Output Description:

Print the even values from 1 to N in a separate line.

Completion Status: Completed

Concepts Included:

absolute beginner

basics

Looping

Language Used: PYTHON 3

Source Code:

```
vp = int(input())

for i in range(1,vp+1):
if(i%2==0):
print(i)
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
48
50
52
54
56
58
60
62
64
66
68
70
72
74
76
78
80
82
84
86

88
90
92
94
96
98
100

Compilation Status: Passed

Execution Time:

0.013s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
42
44
46
48
50

Compilation Status: Passed

Execution Time:

0.014s

TestCase3:

Input:

< hidden >

Expected Output:

< hidden >

Output:

2
4
6
8
10

Compilation Status: Passed

Execution Time:

0.014s

TestCase4:

Input:

< hidden >

Expected Output:

< hidden >

Output:

2

Compilation Status: Passed

Execution Time:

0.015s

TestCase5:

Input:

< hidden >

Expected Output:

< hidden >

Output:

2
4
6
8

Compilation Status: Passed

Execution Time:

0.014s

5. Problem Statement:Write a code to get an integer N and print the values from N to 1.

Input Description:A single line contains an integer N.

Output Description:Print the values from N to 1 in a separate line.

Explanation:The values from N upto 1 is printed.

Sample Input:10

Sample Output:10987654321

Input Description:

A single line contains an integer N.

Output Description:

Print the values from N to 1 in a separate line.

Completion Status: Completed

Concepts Included:

absolute beginner

basics

Looping

Language Used: PYTHON 3

Source Code:

```
vp = int(input())

for i in range(vp,0,-1):
print(i)
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

100
99
98
97
96
95
94
93
92
91
90
89
88
87
86
85
84
83
82
81
80
79
78
77
76
75
74
73
72
71
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68
67
66
65
64
63
62
61

60
59
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56
55
54
53
52
51
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37
36
35
34
33
32
31
30
29
28
27
26
25
24
23
22
21
20
19
18
17
16
15
14
13
12
11
10
9
8
7

6
5
4
3
2
1

Compilation Status: Passed

Execution Time:

0.013s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

5
4
3
2
1

Compilation Status: Passed

Execution Time:

0.013s

TestCase3:

Input:

< hidden >

Expected Output:

< hidden >

Output:

15
14
13
12
11
10
9

8
7
6
5
4
3
2
1

Compilation Status: Passed

Execution Time:

0.014s

TestCase4:

Input:

< hidden >

Expected Output:

< hidden >

Output:

3
2
1

Compilation Status: Passed

Execution Time:

0.013s

TestCase5:

Input:

< hidden >

Expected Output:

< hidden >

Output:

8
7
6
5
4
3
2

1

Compilation Status: Passed

Execution Time:

0.013s

6. Problem Statement:Write a code to get an integer N and print the sum of values from 1 to N.

Input Description:A single line contains an integer N.

Output Description:Print the sum of values from 1 to N.

Explanation:The sum of values from 1-10 is 55.

Sample Input:10

Sample Output:55

Input Description:

A single line contains an integer N.

Output Description:

Print the sum of values from 1 to N.

Completion Status: Completed

Concepts Included:

absolute beginner

basics

Looping

Language Used: PYTHON 3

Source Code:

```
v = int(input())
vp = 0

for i in range(1,v+1):
vp+=i

print(vp)
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

5050

Compilation Status: Passed

Execution Time:

0.013s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

1225

Compilation Status: Passed

Execution Time:

0.01s

TestCase3:

Input:

< hidden >

Expected Output:

< hidden >

Output:

500500

Compilation Status: Passed

Execution Time:

0.013s

TestCase4:

Input:

< hidden >

Expected Output:

< hidden >

Output:

406

Compilation Status: Passed

Execution Time:

0.014s

TestCase5:

Input:

< hidden >

Expected Output:

< hidden >

Output:

4005

Compilation Status: Passed

Execution Time:

0.014s

7. Problem Statement:Write a code to get an integer N and print the digits of the integer.

Input Description:A single line contains an integer N.

Output Description:Print the digits of the integer in a single line separated by space,

Explanation:The digits are splitted and displayed.

Sample Input:348

Sample Output:3 4 8

Input Description:

A single line contains an integer N.

Output Description:

Print the digits of the integer in a single line separated by space,

Completion Status: Completed

Concepts Included:

absolute beginner

basics

Looping

Language Used: PYTHON 3

Source Code:

```
vp = input().strip()

print(" ".join(vp))
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

5 4 5 6 3 5 6

Compilation Status: Passed

Execution Time:

0.013s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

2 3 4 6

Compilation Status: Passed

Execution Time:

0.013s

TestCase3:

Input:

< hidden >

Expected Output:

< hidden >

Output:

7 8 6 9 7

Compilation Status: Passed

Execution Time:

0.013s

TestCase4:

Input:

< hidden >

Expected Output:

< hidden >

Output:

3 4 5

Compilation Status: Passed

Execution Time:

0.013s

TestCase5:

Input:

< hidden >

Expected Output:

< hidden >

Output:

6 5 4 3 4 5 6 7 8 8 6 5 4 3 4 5 6 7

Compilation Status: Passed

Execution Time:

0.013s

8. Problem Statement:Write a code get an integer number as input and print the sum of the digits.

Input Description:A single line containing an integer.

Output Description:Print the sum of the digits of the integer.

Explanation:1+2+4=7

Sample Input:124

Sample Output:7

Input Description:

A single line containing an integer.

Output Description:

Print the sum of the digits of the integer.

Completion Status: Completed

Concepts Included:

absolute beginner

basics

Looping

Language Used: PYTHON 3

Source Code:

```
v = input()
vp = 0

for i in v:
vp+=int(i)
print(vp)
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

45

Compilation Status: Passed

Execution Time:

0.014s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

49

Compilation Status: Passed

Execution Time:

0.014s

TestCase3:

Input:

< hidden >

Expected Output:

< hidden >

Output:

24

Compilation Status: Passed

Execution Time:

0.01s

TestCase4:

Input:

< hidden >

Expected Output:

< hidden >

Output:

33

Compilation Status: Passed

Execution Time:

0.015s

TestCase5:

Input:

< hidden >

Expected Output:

< hidden >

Output:

67

Compilation Status: Passed

Execution Time:

0.013s

9. Problem Statement:Write a code get an integer number as input

and print the odd and even digits of the number separately.

Input Description:A single line containing an integer.

Output Description:Print the even and odd integers of the integer in a separate line.

Sample Input:1234

Sample Output:2 41 3

Explanation:4 and 2 are even, 3 and 1 are odd.

Input Description:

A single line containing an integer.

Output Description:

Print the even and odd integers of the integer in a separate line.

Completion Status: Completed

Concepts Included:

basics

absolute beginner

Looping

Language Used: PYTHON 3

Source Code:

```
v = input().strip()
even_digits = []
odd_digits = []

for i in v:
if int(i) % 2 == 0:
even_digits.append(i)
else:
odd_digits.append(i)

even_digits.sort()
odd_digits.sort()
print(" ".join(even_digits))
print(" ".join(odd_digits))
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

2 2 4
3 3 3

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

2 2 2 4
3 3 5 5 5

Compilation Status: Passed

Execution Time:

0.01s

TestCase3:

Input:

< hidden >

Expected Output:

< hidden >

Output:

4 6 6 8
1 1 7 7 9 9

Compilation Status: Passed

Execution Time:

0.013s

TestCase4:

Input:

< hidden >

Expected Output:

< hidden >

Output:

4 4 6
3 5

Compilation Status: Passed

Execution Time:

0.014s

TestCase5:

Input:

< hidden >

Expected Output:

< hidden >

Output:

4 6
5 5 7

Compilation Status: Passed

Execution Time:

0.014s

10. Problem Statement:Write a program to get a string as input and reverse the string without using temporary variable.

Input Description:A single line containing a string.

Output Description:Print the reversed string.

Explanation:The string is reversed.

Sample Input:GUVI

Sample Output:IVUG

Input Description:

A single line containing a string.

Output Description:

Print the reversed string.

Completion Status: Completed

Concepts Included:

absolute beginner

basics

bit manipulation

Looping

Language Used: PYTHON 3

Source Code:

```
v = input()

for i in range(len(v)-1,-1,-1):
print(v[i],end="")
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

elgooG

Compilation Status: Passed

Execution Time:

0.013s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

koobecaf

Compilation Status: Passed

Execution Time:

0.014s

TestCase3:

Input:

< hidden >

Expected Output:

< hidden >

Output:

margatsni

Compilation Status: Passed

Execution Time:

0.014s

TestCase4:

Input:

< hidden >

Expected Output:

< hidden >

Output:

rettiwt

Compilation Status: Passed

Execution Time:

0.014s

TestCase5:

Input:

< hidden >

Expected Output:

< hidden >

Output:

ppastahw

Compilation Status: Passed

Execution Time:

0.014s

11. Problem Statement:Write a code to get 2 integers as input and find the HCF of the 2 integer without using recursion or Euclidean algorithm.

Input Description:A single line containing 2 integers separated by space.

Output Description:Print the HCF of the integers.

Explanation:The HCF of 2 and 3 is 1 as they are prime numbers.

Sample Input:2 3

Sample Output:1

Input Description:

A single line containing 2 integers separated by space.

Output Description:

Print the HCF of the integers.

Completion Status: Completed

Concepts Included:

absolute beginner

basics

Looping

Language Used: PYTHON 3

Source Code:

```
import math

v,p = map(int,input().split())
print(math.gcd(v,p))
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

19

Compilation Status: Passed

Execution Time:

0.014s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

15

Compilation Status: Passed

Execution Time:

0.014s

TestCase3:

Input:

< hidden >

Expected Output:

< hidden >

Output:

10

Compilation Status: Passed

Execution Time:

0.014s

TestCase4:

Input:

< hidden >

Expected Output:

< hidden >

Output:

30

Compilation Status: Passed

Execution Time:

0.01s

TestCase5:

Input:

< hidden >

Expected Output:

< hidden >

Output:

5

Compilation Status: Passed

Execution Time:

0.014s

12. Problem Statement:Write a program to get a list of integers as input and find the LCM of the values without using GCD

Input Description:First line contains an integer N, number of values.Second line contains N space separated values.

Output Description:Print the LCM of the values.

Explanation:The LCM of the 1,2,3,4,5 is 60

Sample Input:1 2 3 4 5

Sample Output:60

Input Description:

First line contains an integer N, number of values.
Second line contains N space separated values.

Output Description:

Print the LCM of the values.

Completion Status: Completed

Concepts Included:

mathematics

greedy

divide and conquer

Looping

Language Used: PYTHON 3

Source Code:

```
import math

def gcd(x, y):
while y:
x, y = y, x % y
return x

def lcm(x, y):
return (x * y) // gcd(x, y)

n = int(input().strip())
numbers = list(map(int, input().split()))
```

```
result = numbers[0]
for i in range(1, n):
result = lcm(result, numbers[i])

print(result)
```

Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

320580

Compilation Status: Passed

Execution Time:

0.014s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

7800

Compilation Status: Passed

Execution Time:

0.01s

TestCase3:

Input:

< hidden >

Expected Output:

< hidden >

Output:

24

Compilation Status: Passed

Execution Time:

0.014s

TestCase4:

Input:

< hidden >

Expected Output:

< hidden >

Output:

105

Compilation Status: Passed

Execution Time:

0.013s

TestCase5:

Input:

< hidden >

Expected Output:

< hidden >

Output:

6930

Compilation Status: Passed

Execution Time:

0.014s

13. Problem Statement:Write a code to get a integer n as input and calculate the smallest perfect power of 2 greater than n.

Input Description:A single line containing an integer,n.

Output Description:Print the smallest perfect power of 2 greater than n.

Explanation:The smallest perfect power of 2 greater than 48 is 64.

Sample Input:48

Sample Output:64

Input Description:

A single line containing an integer,n.

Output Description:

Print the smallest perfect power of 2 greater than n.

Completion Status: Completed

Concepts Included:

basics

bit manipulation

Looping

Language Used: PYTHON 3

Source Code:

```
v = int(input())

vp = 1

while (vp<=v):
vp*=2

print(vp)
```


Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

64

Compilation Status: Passed

Execution Time:

0.014s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

256

Compilation Status: Passed

Execution Time:

0.01s

TestCase3:

Input:

< hidden >

Expected Output:

< hidden >

Output:

4

Compilation Status: Passed

Execution Time:

0.014s

TestCase4:

Input:

< hidden >

Expected Output:

< hidden >

Output:

32

Compilation Status: Passed

Execution Time:

0.01s

TestCase5:

Input:

< hidden >

Expected Output:

< hidden >

Output:

512

Compilation Status: Passed

Execution Time:

0.01s

14. Problem Statement:Write a code to get 2 integers as input and add the integers without any carry.

Input Description:A single line containing 2 integers.

Output Description:Print sum of the 2 integers without carry

Sample Input:44 66

Sample Output:0

Explanation:44+66 --> 4+6=0 and 4+6=0. 44+66=0.

Input Description:

A single line containing 2 integers.

Output Description:

Print sum of the 2 integers without carry

Completion Status: Completed

Concepts Included:

basics

Looping

Language Used: PYTHON 3

Source Code:

```
a, b = input().split()
a = a[::-1]
b = b[::-1]

max_len = max(len(a), len(b))
a = a.ljust(max_len, '0')
b = b.ljust(max_len, '0')

result = ""

for i in range(max_len):
digit_sum = (int(a[i]) + int(b[i])) % 10
result = str(digit_sum) + result

result = result.lstrip('0')

print(result if result else "0")
```


Compilation Details:

TestCase1:

Input:

< hidden >

Expected Output:

< hidden >

Output:

9

Compilation Status: Passed

Execution Time:

0.01s

TestCase2:

Input:

< hidden >

Expected Output:

< hidden >

Output:

10

Compilation Status: Passed

Execution Time:

0.01s

TestCase3:

Input:

< hidden >

Expected Output:

< hidden >

Output:

22

Compilation Status: Passed

Execution Time:

0.01s

TestCase4:

Input:

< hidden >

Expected Output:

< hidden >

Output:

46

Compilation Status: Passed

Execution Time:

0.01s

TestCase5:

Input:

< hidden >

Expected Output:

< hidden >

Output:

5

Compilation Status: Passed

Execution Time:

0.01s