1. Threes or not

What will be the output of the following Python code?

```
for a in range(10):
    if (a % 3 == 0):
        continue
    print(a,end=' ')
```

Choose the correct answer from below:

A. 1 2 4 5 7 8
B. 1 2 4 5 7 8 10
C. 3 6 9
D. 1 2 4 5 7 8 9
E. 0 1 2 4 5 7 8

2. pass statement

What can be the output of the following code ?

```
i=0
if i==0:
   pass
   print(i, end=" ")
i+=1
print(i, end=" ")
```

Choose the correct answer from below:

A. 0 1
B. Error
C. 0
D. 1

3. divisor and remainder

Fill in the missing piece of code to break the loop. (Choose the block names)

```
a = 0
while True:

    __________
    if a == 5:
        break

A.
a = a+1
a %= 5
a += 1

B.
a = a + 2
a %= 5
a += 1

C.
a = a + 1
a %= 5
a += 2

D.
a = a + 5
a %= 5
a += 5
```

Choose the correct **answer(s)** from below (Mark all of those which are correct):

A. A B. B C. C D. D

4. Numbers between 0 to 5

What would be the output of the following ?

```
i=0
while i<=5:
     if i%2:
        pass
     else:
        print(i, end=" ")
     i+=1
```

Choose the correct answer from below:

A. 1 2 3
B. 0 2 4
C. 1 3 5
D. 2 4 3

5. **print i:j**

What will be the output of the following?

```
i = 0
j = 0
while i <= 2:
   if j%2:
       j += 1
   print(i, ":", j, end=" ")
   i+=1
   j+=1
```

Choose the correct answer from below:

A. 0:0 1:1 2:2
B. 0:0 1:2 2:4
C. 0:1 1:2 2:3
D. 0:1 1:2 2:2

6. Division by subtraction

We want to find the **Quotient**(**q)**, and **Remainder**(**r**) of the division of 2 numbers, i.e. **x** is divided by **y**.

Which of the following code blocks can be used for this? Assume that the code before blocks is common for all the blocks.

```
x = int(input())
y = int(input())

q = 0
r = 0

# Block A
while x > y:
    x -= y
    q += 1
print(q, r)

# Block B
while x >= y:
    x -= y
    q += 1
print(q, y)

# Block C
while x >= y:
    x -= y
    q += 1
print(q, x)
```

Choose the correct answer from below:

A. Block A
B. Block B
C. Block C
D. None of them

7. Sum of Odds – Easy

Problem Description

Take an integer **A** as input. You have to print the sum of all odd numbers in the range **[1, A]**.

Problem Constraints

1 <= **A** <= 1000

Input Format

First and only line contains a single positive integer **A**.

Output Format

Print the required sum in a single line.

Example Input

Input 1:

```
1
```

Input 2:

```
4
```

Example Output

Output 1:

```
1
```

Output 2:

```
4
```

Example Explanation

Explanation 1:

```
For A = 1, 1 is the only odd number which lies in the range [1, 1].
```

Explanation 2:

```
For A = 4, Odd numbers 1 and 3 lie in the range [1, 4].
Sum = 1 + 3 = 4.
```

8. Print N stars

Problem Description

Given an integer **N**, print **N** stars in a single line.

For example if **N = 5** then pattern will be like:

```
*****
```

Problem Constraints

```
2 <= N <= 100
```

Input Format

Single line input contains a single integer **N**.

Output Format

Output **N** stars in a single line.

Example Input

Input 1:

```
 2
```

Input 2:

```
 3
```

Example Output

Output 1:

```
**
```

Output 2:

```
***
```

Example Explanation

```
 Print the pattern as described.
```