

The problem requires a program to print multiples of 8, starting from a given value **N** down to 1. The value of **N** will be taken as input from the user.

Emily, a young programmer, was tasked with this challenge. She used a while loop and initialized the loop variable to the value of **N**. Inside the loop, she checked whether the loop variable was a multiple of 8 and printed it to the console if it was. Then, she decremented the loop variable by 1 until it reached 1.

With a few attempts, Emily was able to solve the problem. She was thrilled to have completed the task and felt more confident in her programming abilities.

Input Format

For each test case, you will get **n** as an integer input.

Constraints

$1 \leq n \leq 10^4$

Output Format

Print all the multiples of 8.

Sample Input 0

30

Sample Output 0

24 16 8

Explanation 0

multiples of 8 till 30 is 24 16 8.

Submitted Code

Language: Java 15

```
1 import java.io.*;
2 import java.util.*;
3
4 public class Solution {
5
6     public static void main(String[] args) {
7         Scanner sc = new Scanner(System.in);
8         int n = sc.nextInt();
9         for(int i = n; i > 0; i--) {
10             if(i % 8 == 0) System.out.print(i + " ");
11         }
12     }
13 }
```

~~for~~ (i = ~~n~~, i > 0, i--)
if (8 % 2 == 0)
Print(i)

8 % 2 == 0

30 % 8 =

When John was starting out as a coding hobbyist, he loved testing out various programming approaches to tackle challenges. One day, he stumbled upon a fascinating numerical series that he aimed to incorporate into a program: n , $n-6$, $n-12$, $n-18$... John's task was to print this sequence until the printed value exceeded zero.

Input Format

For each test case, you will get n as an integer input.

Constraints

```
1 <= n <= 1000
```

Output Format

Print the series in single line.

Sample Input 0

```
20
```

Sample Output 0

```
20 14 8 2
```

Explanation 0

The given series from $n=20$ to 0 are $20\ 14\ 8\ 2$

$n, n-6, n-12, n-18$

0

$n = 20$

$20 - 0$

$20 - 6$

$20 - 12$

$20, 14, 8, 2$

Submitted Code

```
Language: Java 15
1 import java.io.*;
2 import java.util.*;
3
4 public class Solution {
5
6     public static void main(String[] args) {
7         Scanner sc = new Scanner(System.in);
8         int n = sc.nextInt();
9         for(int i = n; i > 0; i -= 6){
10             System.out.print(i+" ");
11         }
12     }
13 }
```

You are required to write a program that takes two integer inputs: **n** and **k**. The program should generate a series of numbers based on the following pattern:

n, n-3k, n-6k, n-9k, n-12k, and so on until the value to be printed is greater than zero.

Your task is to implement a program that will output this series of number.

Input Format

For each test case, you will get **n** and **k** as an integer input.

Constraints

```
1 <= n <= 1000
1 <= k <= 50
```

Output Format

Print the series in a single line.

Sample Input 0

```
20
1
```

Sample Output 0

```
20 17 14 11 8 5 2
```

Explanation 0

In the above test case n=20 and k=1 so , the series are 20 17 14 11 8 5 2

Submitted Code

Language: Java 15

```
1 import java.io.*;
2 import java.util.*;
3
4 public class Solution {
5
6     public static void main(String[] args) {
7         Scanner sc = new Scanner(System.in);
8         int n = sc.nextInt();
9         int k = sc.nextInt();
10        for(int i = n; i > 0; i -= 3*k) System.out.print(i+" ");
11    }
12 }
```

Handwritten notes:

n

k

$n, n-3k, n-6k$

Handwritten note: $n \leftrightarrow 0$

HW_Print Alphabets A-Z

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Write a program to print Alphabets from (A to Z).

Input Format

No input

Constraints

NA

Output Format

Print the Characters in a single line.

Sample Output 0

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

A to Z
(for char i = 'A'; i <= 'Z'; i++)
 sys.out.print(i + " ");

HW_Print Alphabets A-Z

[Problem](#)[Submissions](#)[Leaderboard](#)[Discussions](#)

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Test Case #0

Submitted Code

Language: Java 15

```
1 import java.io.*;
2 import java.util.*;
3
4 public class Solution {
5
6     public static void main(String[] args) {
7         for(char i='A'; i<='Z'; i++) System.out.print(i+" ");
8     }
9 }
```

Write a program to print AAA,bb,CCC,dd,EEE,ff,...uptil 26 lines,where each String printed in a seperate line.

Input Format

No input

Constraints

NA

Output Format

Print each String in a seperate line.

Sample Output 0

AAA
bb
CCC
dd
EEE
ff
GGG
hh
III
jj
KKK
ll
MMM
nn
OOO
pp
QQQ
rr
SSS
tt
UUU
vv
WWW
xx
YYY
zz

AAA First Capital 3
bb Second Small 2
CCC
dd
EEE
ff

Submitted Code

```
Language: Java 15
1 import java.io.*;
2 import java.util.*;
3
4 public class Solution {
5
6     public static void main(String[] args) {
7         int count = 1;
8         for(char ch = 'A'; ch <= 'Z'; ch++){
9             if(count % 2 != 0){
10                 System.out.println(ch + "" + ch + "" + ch);
11             }else{
12                 char c = (char)(ch + 32);
13                 System.out.println(ch + "" + c);
14             }
15             count++;
16         }
17     }
18 }
```

① A - 2

① Capital ③

2) Small ② - ③ - ⑥

— — — — —

int count = 1;

for(char ch = 'A'; ch <= 'Z'; i++){
if(count % 2 != 0){

System.out.println(ch + "" + ch + "" + ch); → AAA

else{

char c = ch + 32

System.out.println(ch + "" + c);
bb

Write a program to print Z,z,X,x,V,v,T,t,R,r,.....uptil A,a.

Input Format

No input

Constraints

NA

Output Format

Print the series in a single line as given below.

ZzYyXxWwVvUuTtSsRrQqPpOoNnMmLlKkJjIiHhGgFfEeDdCcBbAa

Sample Output 0

```
Z z Y y X x W w V v U u T t S s R r Q q P p O o N n M m L l K k J j I i H h G g F f E e D d
C c B b A a
```

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✓ Test Case #0

Submitted Code

```
Language: java 15
1 import java.io.*;
2 import java.util.*;
3
4 public class Solution {
5
6     public static void main(String[] args) {
7         for(char ch = 'Z';ch>='A';ch--){
8             System.out.print(ch+" ");
9             System.out.print((char)(ch+32)+" ");
10        }
11    }
12 }
```

Handwritten notes showing the sequence of characters and their corresponding ASCII values: Z, z, X, x, V, v, T, t, R, r, ..., A, a.

Handwritten notes showing the sequence of characters and their corresponding ASCII values: Aa Bb

Handwritten note showing the character 'A' with its ASCII value 65.

Handwritten note showing the calculation: A + 32 = a

Handwritten note showing the calculation: 65 + 32 = 97, with an arrow pointing to the character 'a'.

Handwritten note showing the calculation: ch + 32

Handwritten note showing the calculation: A + 32 = 65 + 32 = 97

Handwritten note showing the calculation: (char) (97)