

# Revision

for  $\rightarrow$  loops.

print table of 5 (Reverse).

reverse for loop.



$$\begin{aligned} 5 \times 10 &= (10 \times 5) \\ 5 \times 9 &= (9 \times 5) \\ 5 \times 8 &= (\underline{8} \times 5) \end{aligned}$$

$\vdots$

$$5 \times 1 =$$

for (  $i = 10$      $(i \geq 1)$      $i--$  )  
    {

}

# Print n, n-k, n-2k, n-3k .....

Sample Input 0

30  
4

Sample Output 0

30  
26  
22  
18  
14  
10  
6  
2

Problem

Submissions

Leaderboard

Discussions

You will be given two integers N and K as an integer input.

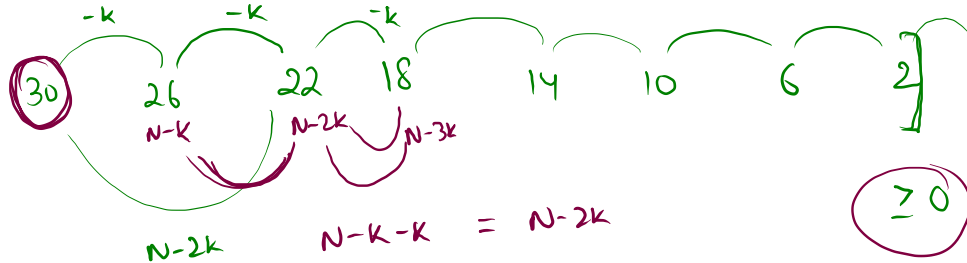
You have to print the series N, N-K, N-2K where each number should be printed in a separate line and you have to print till the time the printed integer is greater than or equal to zero.

i/p {  $\begin{matrix} N \\ K \end{matrix}$

$\geq 0$

N, N-K, N-2K, .....  $\geq 0$

$\begin{matrix} N=30 \\ K=4 \end{matrix}$



$\begin{matrix} N=15 \\ K=6 \end{matrix}$



```
for(int i = n; i >= 0 ; i -= k){
    System.out.println(i);
}
```

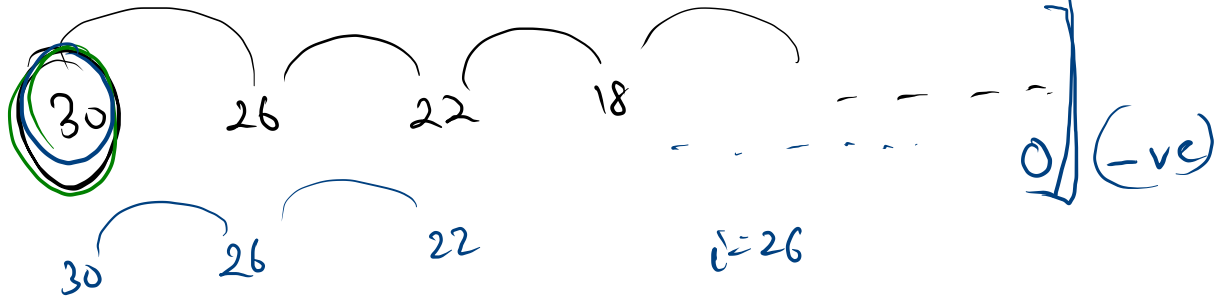
eg.  $n=30$   
 $k=4$

$$i = i - k$$

$$i = 30 - 4$$

$$i = 26$$

$$\geq 0$$



$$i = 26$$

$$i -= k$$

$$i = i - k$$

$$26 - 4 = 22$$

# print a to z

Problem

Submissions

Leaderboard

Discussions

You have to print characters from **a till z** where each character should be printed in a separate line.

```
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 = 'a' ; ch <= 'z' ; ch++){
8             System.out.println(ch);
9         }
10    }
11 }
```

a - c - e - g - i

## Print a, c, e... till the characters are less than z

Problem

Submissions

Leaderboard

Discussions

Print a, c, e... till the characters are less than z, where each character is printed in a separate line.

a ~~b~~ c ~~d~~ e - - -

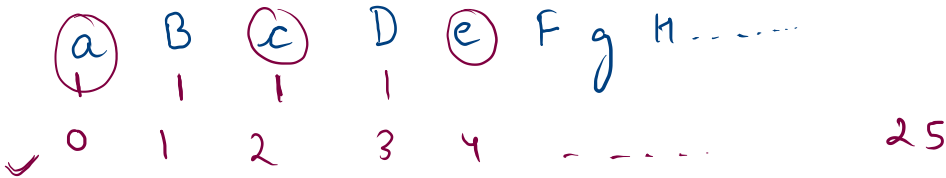
```
6 public static void main(String[] args) {  
7     for(char ch = 'a' ; ch <= 'z' ; ch = (char)(ch + 2)){  
8         System.out.println(ch);  
9     }  
10 }
```

ch += 2  
U

# Print a, B, c, D, e, F, g..... 26 characters

Problem	Submissions	Leaderboard	Discussions
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Print a, B, c, D, e, F, g..... 26 characters where each character should be printed in a separate line.



even → small  
odd → capital

```
for (int i = 0; i < 26; i++)  
{  
    // Logic for printing characters  
}
```

```

4 public class Solution {
5
6     public static void main(String[] args) {
7         for(int i = 0; i <= 25; i++){
8             if((i % 2) == 0){
9                 //small char
10                System.out.println((char) (i+'a'));
11            }
12            else{
13                //capital char
14                System.out.println((char) (i+'A'));
15            }
16        }
17    }
18 }

```

$$i = 0 \quad 0 + 'a' = 97 + 0 = 97$$

$$i = 1 \quad 1 + 65 = 66$$

i	0	1	2	3	4	5	-----	25
	'a'	'b'	'c'	'd'	'e'	'f'		

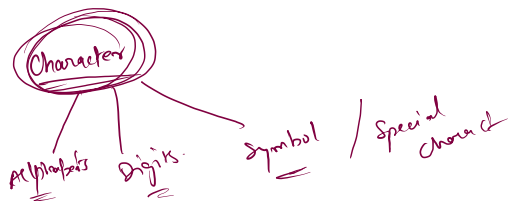
$$2 + 97 = 99$$

Java

$$[ \text{ch} + \text{int} ] = \text{int} \rightarrow \text{char}$$

$$\text{ASCII} + \text{int}$$

$$\text{'A'} + 7 = \text{ASCII}$$



$$\text{'7'} + 7 = 55 + 7 = 62$$

Java.

char.

Char.

ASCII ↙

ur log.



computer

↳ binary  
(0/1)

'a'

97

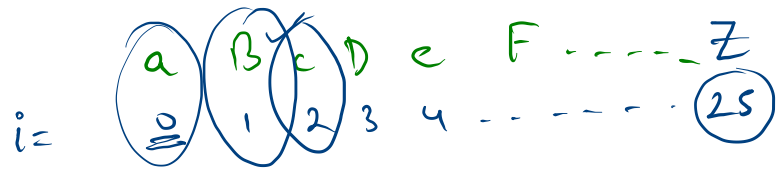
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```

4 public class Solution {
5
6     public static void main(String[] args) {
7         for(int i = 0; i <= 25; i++) {
8             if(i % 2 == 0) {
9                 //small char
10                System.out.println((char)(i+'a'));
11            }
12            else {
13                //capital char
14                System.out.println((char)(i+'A'));
15            }
16        }
17    }
18 }

```



i = even

i = odd

$$2 + 'a' = 2 + 97$$

$$1 + 'A'$$

$$1 + 65$$

$$= 66$$

$$0 + 'a' = 97$$

$$(char) 97 = 'a'$$

a	B	c	D	e	F	-----
0	1	2	3	4	5	----- 25

even  $\rightarrow$  small

odd  $\rightarrow$  capital.

1	2	3	4	5	6	-----	26
---	---	---	---	---	---	-------	----

even  $\rightarrow$  capital

odd  $\rightarrow$  small

a	B	c	D	e	F
1	2	3	4	5	6

# Print z, y, x.... till 26 characters

Problem

Submissions

Leaderboard

Discussions

Print z, y, x.... till 26 characters where each character is printed in a separate line.

z

{

z

y

x

w

v

u

-----

a

Language: Java 8

```
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.println(ch);
9         }
10    }
11 }
```

# GKSTR15 Print\_Even

Problem

Submissions

Leaderboard

Discussions

Given a integer n, print all even numbers from 0 till n (including, if even)

Input Format

An integer n

n=10

0  
2  
4  
6  
8  
10  
✓

n=9

0  
2  
4  
6  
8  
✓

0%

Sample Input 0

10

Sample Output 0

0  
2  
4  
6  
8  
10

i += 2  
i = 0

try with %  
if (i/2 == 0)

```
1 import java.io.*;
2 import java.util.*;
3
4 public class Solution {
5
6     public static void main(String[] args) {
7         Scanner scn = new Scanner(System.in);
8         int n = scn.nextInt();
9
10        for(int i = 0; i <= n; i += 2){
11            System.out.println(i);
12        }
13    }
14 }
```

# Print Alternate Elements of a String

ip { s → "geekster"  
→ 0 1 2 3 4 5 6 7

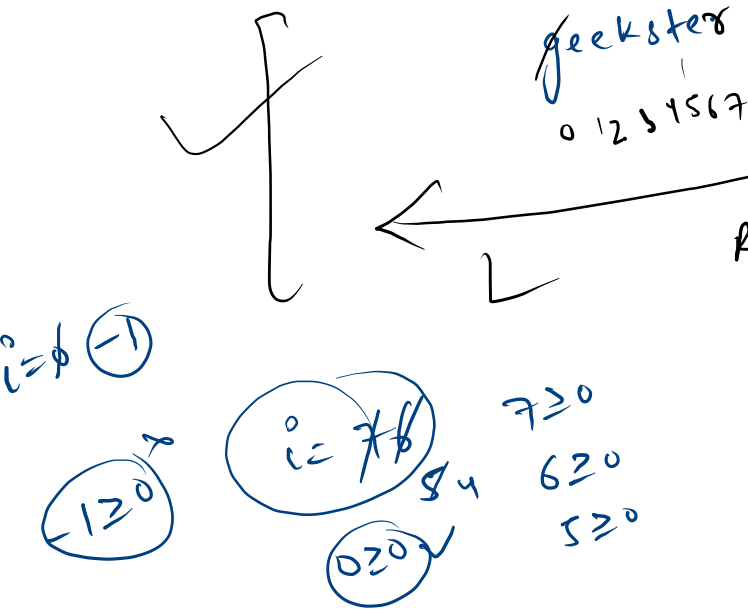
idx → even

g e s e

Noida

6th street

## Reverse The String



```
1 import java.io.*;
2 import java.util.*;
3
4 public class Solution {
5
6     public static void main(String[] args) {
7         Scanner scn = new Scanner(System.in);
8         String s = scn.next();
9
10        for(int i = s.length() - 1; i >= 0; i--){
11            System.out.print(s.charAt(i));
12        }
13    }
14 }
15 }
```