

$n=40$

Input

40  $\rightarrow$

37  $\rightarrow$

34  $\rightarrow$

31  $\rightarrow$

$n > 0$

Initialization  $\rightarrow i = n$

cond  $\rightarrow i \geq 0$

incr/decr  $\rightarrow i--$

$\rightarrow$  for (int  $i=n$ ;  $i \geq 0$ ;  $i--$ )

System.out.println(i);





```
int i=n;
```

```
while(i>0){
```

```
// i-=3;
```

```
System.out.println(i);
```

```
i-=3; //
```

```
}
```

*breaks*

$n=20$

↓

$i=20 > 0 \rightarrow G-$

$i=17 > 0 \rightarrow G-$

$i=14 > 0 \rightarrow G-$

$i=11 > 0 \rightarrow G-$

$i=8 > 0 \rightarrow G-$

$i=5 > 0 \rightarrow G-$

$i=2 > 0 \rightarrow G$

$i=-1 > 0$  (F)

20

17

14

11

8

5

2

$i=20 \rightarrow$

17  $\rightarrow$

17

G-

$i=17 \rightarrow$

14  $\rightarrow$

14

G-

$i=14 \rightarrow$

11  $\rightarrow$

11

G-

$i=11 \rightarrow$

8  $\rightarrow$

8

G-

$i=8 \rightarrow$

5  $\rightarrow$

5

G-

$i=5 \rightarrow$

2  $\rightarrow$

2

G-

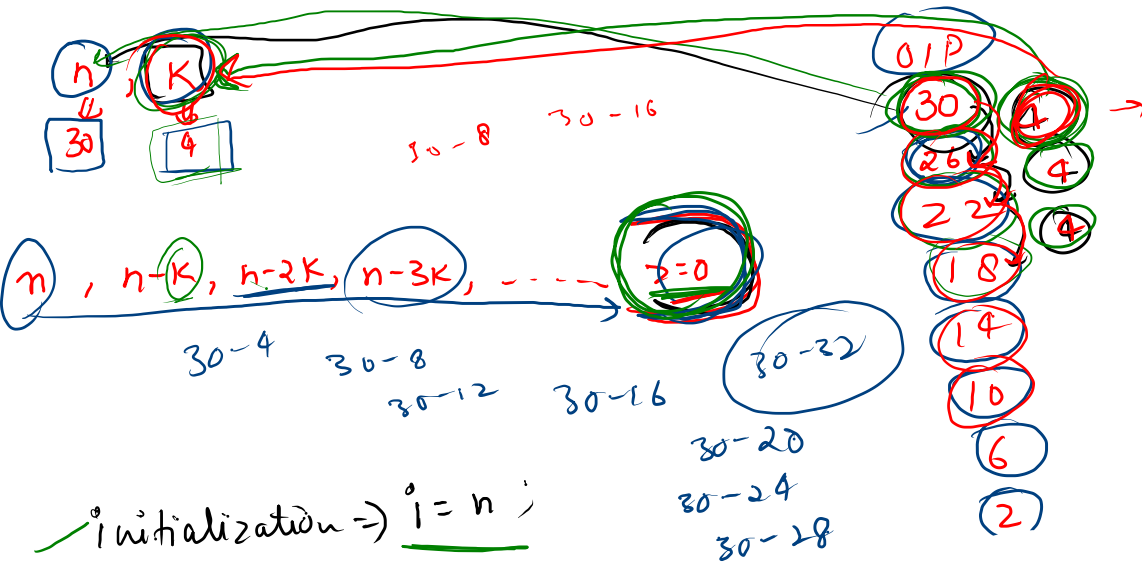
$i=2 \rightarrow$

-1  $\rightarrow$

-1

G-

$i=-1$  X



Initialization  $\Rightarrow \underline{i = n}$

cond  $\Rightarrow \underline{i \geq 0}$

inc/de  $\Rightarrow \underline{i--K}$

$\rightarrow$  for ( $\underline{\text{int } i = n}$ ;  $\underline{i \geq 0}$ ;  $\underline{i--K}$ );  
 {  
syso(i);  
 }

$n=50, k=5, l=4$

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

$(i=50; i>=4; i-=5)$

$$i = 50 >= 4 (T)$$

$$i = 45 >= 4 (T)$$

$$i = 40 >= 4 (T)$$

$$i = 35 >= 4 (T)$$

$$i = 30 >= 4 (T)$$

$$i = 25 >= 4 (T)$$

$$i = 20 >= 4 (T)$$

$$i = 15 >= 4 (T)$$

$$i = 10 >= 4 (T)$$

$$i = 5 >= 4 (T)$$

$$i = 0 >= 4 (F)$$

$$\rightarrow 50$$

$$\rightarrow 45$$

$$\rightarrow 40$$

$$\rightarrow 35$$

$$\rightarrow 30$$

$$\rightarrow 25$$

$$\rightarrow 20$$

$$\rightarrow 15$$

$$\rightarrow 10$$

$$\rightarrow 5$$

print 'a' to 'z'

O/P

a) { 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 }

initialization  $\rightarrow i = 'a'$

cond<sup>n</sup> :-  $i <='z'$

inc/dec :-  $i++;$

```

    ↓ ↓
for(char i='a' ; i<='z' (i++){
    System.out.println(i);
}

```

↓ ↓  
 $i = 'a' \quad c = 'z'$

→ ASCII

OOPS

97 <= 122

a

$i = i + 1$

a + 1

↓ (ans)  
 $97 + 1 = (98) \rightarrow 'b'$

i++

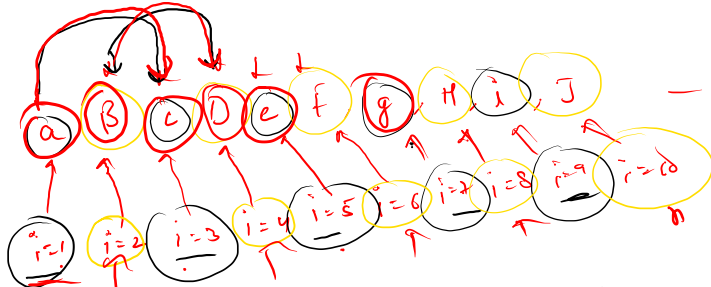
$i = 'b' \quad c = 'z' \quad > b$

$i = 'c' \quad c = 'z'$

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.



$ch1 = 'a'$   
 $ch2 = 'B'$   
 $ch1 = ch1 + 2 = 'c'$   
 $ch2 = ch2 + 2 = 'D'$

a, B, c, D, e,

$i = 1 \rightarrow$   
 $i = 2 \rightarrow \text{even}$   
 $\text{for } (int\ i = 1; i \leq 26; i++)$   
 $\{$   
 $\quad \text{if } (i \% 2 == 0)$   
 $\quad \{$   
 $\quad \quad \text{capital letters}$   
 $\quad \}$   
 $\quad \text{else}$   
 $\quad \{$   
 $\quad \quad \text{small letters}$   
 $\quad \}$   
 $\}$

$ch1 = 'a'$   
 $ch2 = 'B'$   
 $i = 1 \rightarrow \text{odd} \rightarrow a$   
 $i = 2 \rightarrow \text{even} \rightarrow B$   
 $i = 3 \rightarrow \text{odd} \rightarrow c$   
 $i = 4 \rightarrow \text{even} \rightarrow D$   
 $i = 5 \rightarrow \text{odd} \rightarrow e$   
 $i = 6 \rightarrow \text{even} \rightarrow F$   
 $i = 7 \rightarrow \text{odd} \rightarrow g$   
 $i = 8 \rightarrow \text{even} \rightarrow H$   
 $i = 9 \rightarrow \text{odd} \rightarrow i$   
 $i = 10 \rightarrow \text{even} \rightarrow J$

$ch1 = 'a'$   
 $ch2 = 'B'$   
 $i = 1 \rightarrow \text{odd} \rightarrow a$   
 $i = 2 \rightarrow \text{even} \rightarrow B$   
 $i = 3 \rightarrow \text{odd} \rightarrow c$   
 $i = 4 \rightarrow \text{even} \rightarrow D$   
 $i = 5 \rightarrow \text{odd} \rightarrow e$   
 $i = 6 \rightarrow \text{even} \rightarrow F$   
 $i = 7 \rightarrow \text{odd} \rightarrow g$   
 $i = 8 \rightarrow \text{even} \rightarrow H$   
 $i = 9 \rightarrow \text{odd} \rightarrow i$   
 $i = 10 \rightarrow \text{even} \rightarrow J$



You will be given three integer inputs  $n, k$  and  $l$  and you to print the series  $n, n-k, n-2k, n-3k, \dots$  till last where the value printed in the end should be just greater than or equal to the given input  $l$ .

$i >= l$

You will be given two integers  $n$  and  $k$  as an integer input.  $k \rightarrow ?$

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.

$i$   $wnd^n \rightarrow i >= 5$