

$i = 0$ ✓
 $i \leq 1$ ✓
 for (initialization , termination , increment/decrement) {
 if ($i == 3$) {
 break;
 }
 if ($i == 2$) {
 continue;
 }
 //
 }
 }

for (int i = 0; i <= 10; i--) { i ~~0~~ - 1 ✓
 ↳ if (i == -1) {
 break;
 sysno(i);
 }
 }

⇒ [0]

for (int i = 5; i >= 0; i++) {
 ↳ if (i == 6) continue;
 sysno(i);
 }

i 8 ✓
 [5] 6 7
 5
 7

while loop

- ① initialization
- ② termination
- ③ increment/decrement

$a \rightarrow 5$



1
2
3
4
5
6

`int i = 0;` \Rightarrow initialization
`while($i \leq 5$)` \Rightarrow termination

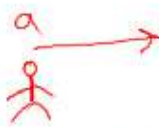
`syso(i);`
True \leftarrow

`i++;` \Rightarrow increment/decrement

`{`

0
1
2
3
4
5

`while(a < b)`
`{`
`a++;`
`b--;`
`}`



`int i = 0;`

`while(true)`
`{`
`if(i == 5) break;`
`}`

`syso(i)`

`i++;`

`{`

`for(i = 0; i < n;)`

Ques using while loop

✓ $n = 10$

$\left[\begin{array}{l} n \geq 1 \\ n > 0 \end{array} \right]$ same

$(-2 > 1) \rightarrow \text{false}$

10 → 7 → 4 → 1

while($n \geq 1$) {
 System.out.println(n);
 n = n - 3;
}

n
 $\boxed{10} \neq 4 \neq 2$

10
 7
 4
 1

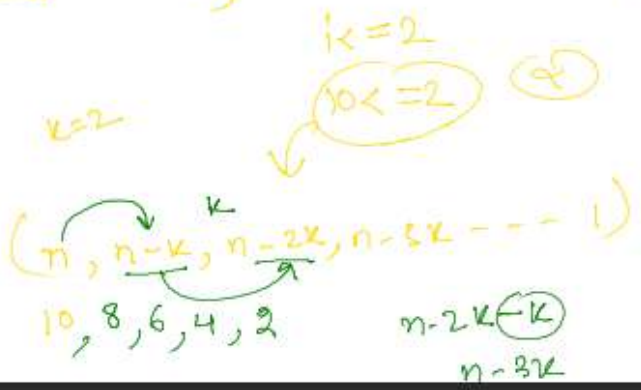
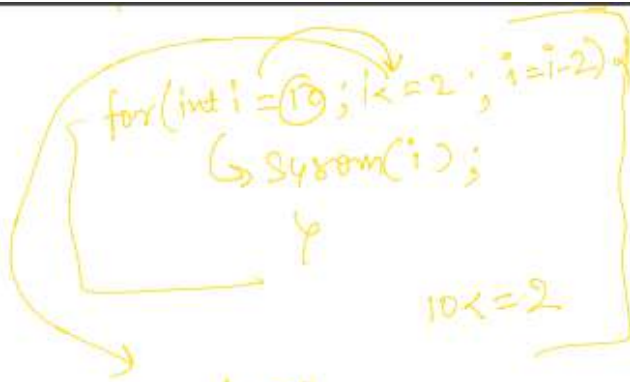
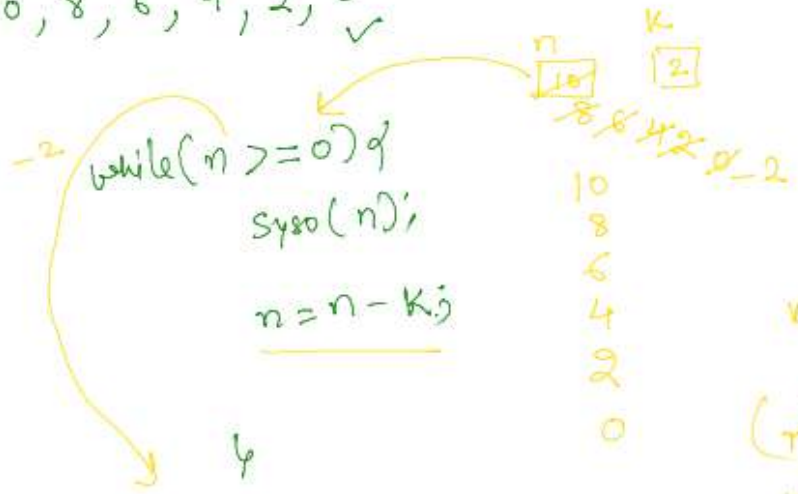
```

3
4 public class Solution {
5
6     public static void main(String[] args) {
7         Scanner scn = new Scanner(System.in);
8
9         int n = scn.nextInt();
10
11         while(n >= 1){
12             System.out.println(n);
13             n = n - 3;
14         }
15
16         * Enter your code here. Read input from STDIN. Print output to STDOUT.
17     }
18 }
    
```

Que

$n = 10$
 $k = 2$

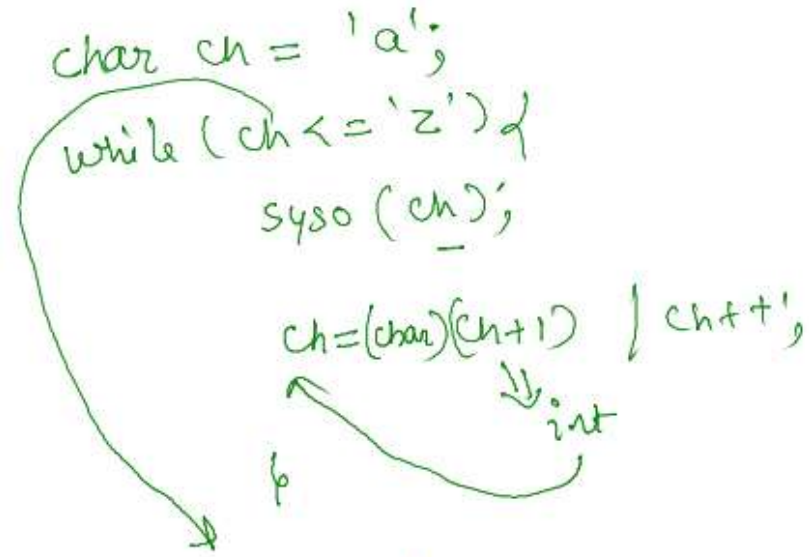
10, 8, 6, 4, 2, 0 ✓



Que

a b c d - - - z

ch = 'a' b c - - - z



a
b
c

Ques

$\boxed{a}^{+2} \text{ , c , e } \dots \text{ y}$

char ch = 'a';

while (ch < 'z') {

System.out.println(ch);

ch = (char)(ch+2);

}

ch \boxed{a} c e g ... y @

a
c
e
g
!
!
y

```
public class Solution {
```

```
    public static void main(String[] args) {
```

```
        char ch = 'a';
```

```
        while(ch < 'z'){
```

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

```
            ch = (char)(ch+2);
```

```
        }
```

```
        /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class
```

```
    }
```

```
}
```

ch = 'a' c

e g

!

!

y

y

a
c
e
!
!
y

char ch = 'a'

↓

= (ch) + 1 || ch - 1

ASCII

97+1

integer
4K

char
2K

(lossy conversion)

ch ← (char) (98) ch = (char) (ch+1);

Sol 'a', 'B', 'c', 'D', 'e', 'f' --- Z
① 2 ③ 4 5 6 --- 26

Small case → odd char ch = 'a';
Upper case → even int i = 0;

while (i <= 26)

if (i % 2 == 1)

syso(ch);

else

syso((char)(ch-32));

ch = (char)(ch+1);

}

b → B

A 65 ↔ 97 a

B 66 ↔ 98 b

C 67 ↔ 99 c

99-32

↓
(char)(67)


```

public static void main(String[] args) {
    char ch = 'a';

    int i = 0;

    while(i <= 25){
        if(i % 2 == 0){ // lower case
            System.out.println(ch);
        } else { // upper case
            System.out.println((char)(ch - 32));
        }

        ch = (char)(ch + 1);
        i++;
    }
    /* Enter your code here. Read input from STDIN. Print output to STDOUT. Yo
}

```

$ch = 'a' 'b' 'c' 'd' 'e'$
 $i = 0 + 2$
 $(3) (char)(32)$
 4
 D

a
B
c
D
e
||
|
|
|
Z

```

public class Solution {

```

```

    public static void main(String[] args) {
        Scanner scn = new Scanner(System.in);

        int n = scn.nextInt();

        int i = 0;
        while(i <= n){
            if(i % 2 == 0){
                System.out.println(i);
            }
        }
    }
}

```