

## HATFD1010

### problem statement

#### Rotate a String Left by K Positions

Write a program to rotate a given string *s* left by *k* positions without using any built-in string functions. For example, rotating "abcdef" by 2 would give "cdefab".

**Instructions:** Do not use built-in rotation or substring functions. Implement the logic manually.

### program code.

```
import java.util.*;
public class Main
{
    public static void main(String[] args)
    {
        Scanner o = new Scanner(System.in);
        String a = o.nextLine();
        int n = a.length();
        int k = o.nextInt();
        k = k % n; //if k length is larger the string length this statement can used

        for(int i = 0; i < n; i++)
        {
            System.out.print(a.charAt((i + k) % n));
        }
    }
}
```

sample inputs 1:

hashagile

4

Sample output 1:

agilehash

```
hashagile
4
agilehash
```

Sample input 2:

datascirnce

4

Sample output 2:

sciencedata

```
datascience
4
sciencedata
```

Sample input 3:

helloworld

0

Sample output3:

helloworld

```
helloworld
0
helloworld
```

Sample input 4:

language

10

Sample output 4:

nguagela

```
language
10
nguagela
```

Sample input 5:

hashagile

4

Sample output 5:

agilehash

```
abcdef
2
cdefab
```

Sample input 6:

online

2

Sample output 6:

lineon

```
online
2
lineon
```