

<https://course.acciojob.com/idle?question=31808587-0ae1-4356-8537-a586717da38a>

● EASY

● Max Score: 30 Points



k-th node from the end of the linked list

Given the head node of the singly linked list and an integer k , find the value at the k th node from the end of the linked list.

Input Format

The first line contains two integers N and k , denoting the number of elements in the linked list and k is the index of the node from the end you're supposed to find.

The second line contains N space-separated integers denoting the elements of the linked list.

Output Format

The only line contains the element at the k node from the end.

Example 1

Input

```
5 4
43 6 9 1 5
```

Output

6

Explanation

The given linked list is: 43->6->9->1->5

We can clearly see that the 4th element from the end is 6. Therefore we return a pointer pointing to the node with the value 6.

Example 2

Input

```
5 5
3 7 -32 8 11
```

Output

3

Explanation The linked list in this case is 3->7->-32->8->11

The 5th element from last is the first node of the list. Therefore we return a pointer pointing to the first node i.e. 3.

Constraints

$1 \leq N \leq 10^5$

$-10^9 \leq \text{data} \leq 10^9$

$1 \leq k \leq N$

Topic Tags

- **Linked lists**

My code

```
// in java
```

```
import java.util.*;  
import java.lang.*;  
import java.io.*;
```

```
class Node  
{  
    int data;  
    Node next;  
  
    Node(int data, Node next)  
    {  
        this.data = data;  
        this.next = next;  
    }  
  
    Node() {}  
}
```

```
public class Main  
{
```

```
static void findk(Node h,int n,int m)  
{ //display(h);  
    Node a=h;  
    for(int i=1;i<n-m+1;i++)
```

```
a=a.next;
```

```
System.out.print(a.data);  
}
```

```
public static void main (String[] args) throws java.lang.Exception  
{  
    //your code here  
    Scanner s=new Scanner(System.in);  
    Node a=null;  
  
    int n=s.nextInt(); int m=s.nextInt();  
    int arr[]=new int[n];  
    for(int i=0;i<n;i++)  
        arr[i]=s.nextInt();  
    for(int i=n;i>0;i--)  
        a=new Node(arr[i-1], a);  
  
    findk(a,n,m);  
  
    }  
}
```