

<https://www.interviewbit.com/problems/deque/>

```
import java.lang.*;
```

```
import java.util.*;
```

```
public class Main {
```

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

```
        Scanner sc=new Scanner(System.in);
```

```
        int no=sc.nextInt();//7
```

```
        Deque<Integer> de= new ArrayDeque<>();
```

```
        for(int i=0;i<no;i++)
```

```
        {
```

```
            int x=sc.nextInt();//x//1
```

```
            if(x==1)
```

```
            {
```

```
                int y=sc.nextInt();//5
```

```
                de.addLast(y);
```

```
            }
```

```
            if(x==2)//2
```

```
            {
```

```
                int y=sc.nextInt();
```

```
                de.addFirst(y);//1
```

```
            }
```

```
            if(x==3)
```

```
            {
```

```
                if(!de.isEmpty())//x
```

```
                {
```

```
                    System.out.println( de.peekFirst());
```

```
                }
```

```
            else
```

```
            {
```

```
                System.out.println(-1);
```

```
    }  
}  
if(x==4)  
{  
    if(!de.isEmpty())  
    {  
        System.out.println(de.getLast());  
    }  
    else  
    {  
        System.out.println(-1);  
    }  
}  
if(x==5)  
{  
    if(!de.isEmpty())  
    {  
        de.removeFirst();  
    }  
}  
if(x==6)  
{  
    if(!de.isEmpty())  
    {  
        de.removeLast();  
    }  
}  
}  
}
```