

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

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

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

```
public class Main {
```

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

```
        // YOUR CODE GOES HERE
```

```
        // Please take input and print output to standard input/output (stdin/stdout)
```

```
        // DO NOT USE ARGUMENTS FOR INPUTS
```

```
        // E.g. 'Scanner' for input & 'System.out' for output
```

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

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

```
        PriorityQueue<Integer> que =new PriorityQueue<>();
```

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

```
        {
```

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

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

```
            {
```

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

```
                que.add(y);
```

```
            }
```

```
            else if(x==2)
```

```
            {
```

```
                if(!que.isEmpty())
```

```
                {
```

```
                    System.out.println(que.peek());
```

```
                }
```

```
            else
```

```
            {
```

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

```
            }
```

```
}  
else if(x==3)  
{  
    if (!que.isEmpty()) {  
        que.poll();  
    } else {  
        System.out.println("-1");  
    }  
}  
  
}  
  
}  
  
}
```