

```

// Now we are supposing that the queue has got all the answers
vector<int> ans;
for(int i=0; i<=n-k; i++){
    while(q.size()>0 && q.front()<i){
        q.pop();
    }
    if(q.front()>=i && q.front()<=i+k){
        ans.push_back(v[q.front()]);
    }
    else if(q.front()>i){
        // means current wale window k saare element me se koi bhi nahi hai
        ans.push_back(0);
    }
}
return ans;

```

0 -1 -2 3 4 -5 6 7 -8
 -1 -1 -2 -5 -5 -5 0 -8 977007666

Why?

1 2 5



complete
 do 4 sum
 case 1) $i=0$

$1 < 0$
 $1 > 1$ & $1 < 0+3$
 $1 > 1$ & $1 < 3$

case 2) $i=1$
 $1 > 1$ & $1 < 1+3$
 $1 > 1$ & $1 < 4$

case 3) $i=2$
 $2 > 2$ & $2 < 2+3$
 $2 > 2$ & $2 < 5$

case 4) $i=3$
 $3 < 3$
 $5 < 3$ while x
 $5 > 3$ & $5 < 3+3$
 $5 > 3$ & $5 < 6$

case 5) $i=4$
 $4 < 4$ while x
 $5 < 4$ while x
 $5 > 4$ & $5 < 4+3$
 $5 > 4$ & $5 < 7$

case 6) $i=5$
 $5 < 5$ while x
 $5 < 5$ while x
 $5 > 5$ & $5 < 5+3$
 $5 > 5$ & $5 < 8$

case 7) $i=6$
 $6 < 6$ while x
 $9 < 6$ while x
 $9 > 6$ & $9 < 6+3$
 $9 > 6$ & $9 < 9$

case 8) $i=7$
 $7 < 7$ while x
 $9 < 7$ while x
 $9 > 7$ & $9 < 7+3$
 $9 > 7$ & $9 < 10$

case 9) $i=8$
 $8 < 8$ while x
 $9 < 8$ while x
 $9 > 8$ & $9 < 8+3$
 $9 > 8$ & $9 < 11$

case 10) $i=9$
 $9 < 9$ while x
 $9 < 9$ while x
 $9 > 9$ & $9 < 9+3$
 $9 > 9$ & $9 < 12$

case 11) $i=10$
 $10 < 10$ while x
 $9 < 10$ while x
 $9 > 10$ & $9 < 10+3$
 $9 > 10$ & $9 < 13$

case 12) $i=11$
 $11 < 11$ while x
 $9 < 11$ while x
 $9 > 11$ & $9 < 11+3$
 $9 > 11$ & $9 < 14$