8.	Find maximum in O(1)?
7	Griven Stack is
	<u>2</u> <u>5</u> 1.
*	3
	72> Maximum
	So, output must be 64 when get Max() is called.

# Joogsam: -# include (stalio.h) # include (conio. h) void main () using namespace std; struct Mystack Stack (int > s; int max Ele: if (s. empty())

cout («"Stack is empty \n";

else

cout («"Maximum element in the

stack is:" << max ele << "\n". cout & "Stack is empty"; refurn;

```
cout (("Top most element is:";
(t > maxéle)? cout « maxéle: contact.
  if (s. empty())
    coud << "Stack is empty/n";
    return:
 cont (("Top most Element removed:";
 int t = 0 s. top ();
 S. ptp ();
     (t > 100x 6/e)
   coedic maxele (<" n".
  max éle = 2* max éle - t;
 else
     coud << f << " \n".
void push (int x)
```

```
if (s. empty())
         max Ele: x.

S. push (w);

cout <<" No. inserted: "<< x << " |n".
          return;
   if (x> max E/e)
       S. push (2* 2- max Ele);
    s. push (x);
cout (<" No inserted." (<x << " | n",
int main ()
My Stack s;
s. push (3);
s. push (5);
3. get Max ();
S. mush (7);
S. push (19);
```

S. bob (); S. get Max (); returno; Number inserted: 3 Number inserted: 5 Maximum element in Stack is: 5 Number inserted : 7. Number inserted: 19 Manimum Element in stack is; 19 Top Most Element Removed: 19 Maximum element in stack is: 7. Top Most Element Removed: 7 Top Most Element is: 5