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8) WAP to simulate the following working of stack using an array with the following:
a) Push
b) Pop
c) Display.
The programe should print appropriate messages overflow, stack overflow.

Ans

Create a stack of size 10.

```
push(x)
{
  if (top == size-1)
  {
    printf("stack is full!");
  }
  else
  {
    top++;
    stack[top] = n;
  }
}

pop()
{ if (top == -1)
  {
    printf("stack is empty");
  }
  else
  {
    printf(stack[top]);
    top--;
  }
```

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```
display ()
{
  if(top == -1)
  {
    printf("u stack is empty");
  }
  else
  { int i;
    for(i= top; i>= 0; i--)
    {
      printf("u %d", stack[i]);
    }
  }
}
```