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Write a program to simulate the working of stack using an array with the following:

- a) Push b) Pop c) Display.

The program should print app messages for stack overflow, stack underflow.

```
→ # define size 10
    int A[SIZE], top;
    top = -1
```

```
void push (int value)
{
    if (top == size-1)
        printf ("Stack overflow\n");
    else
    {
        top++;
        stack A[top] = value;
    }
}
```

```
void pop ()
{
    if (top == -1)
        printf ("Stack underflow\n");
    else
        printf ("Deleted %d", stack A[top]);
    top--;
}
```

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