

```
#include <stdio.h>
#define size 3
int top = -1;
void push (int [], int);
int pop (int []);
void display (int []);
int main (int argc, char * * argv)
{
```

```
    int stack [size];
    int choice, element;
    char ch;
    do
    {
```

```
        printf ("Enter your choice \n");
        printf ("1. Push \n");
        printf ("2. Pop \n");
        printf ("3. Display \n");
        scanf ("%d", &choice);
        switch (choice)
        {
```

```
            case 1: printf ("Enter the element to be
                        pushed \n");
```

```
                scanf ("%d", &element);
                push (stack, element);
                break;
```

```
            case 2: element = pop (stack);
                    if (element == -1)
                        printf ("Stack Underflow");
                    else
                        printf ("Popped element is %d \n",
                                element);
```

```
                break;
```

```
            case 3: display (stack);
                    break;
```

```
            default: printf ("Invalid choice");
```

```

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printf("Do you want to continue? (y/n)");
fflush(stdin);
scanf("%c", &ch);
// deleted ch = 'y' || ch = 'n';
while(ch == 'y' || ch == 'n');
return 0;

```

```

}
void push (int stack [], int ele)
{
    if (top == size - 1)
    {
        printf("Stack overflow");
    }
    else
    {
        top++;
        stack[top] = ele;
    }
}

```

```

int pop (int stack [])
{
    int people;
    if (top == -1);
    return -1;
    else
    {
        people = stack[top];
        top--;
        return (people);
    }
}

```

```

void display (int stack [])
{
    int i;
}

```

```
printf("The stack elements\n");  
for (i = top; i >= 0; i--)  
{  
    printf("%d\t", stack[i]);  
}
```