

```
struct Stack
{
```

```
    int arr[5];
```

```
    int top;
```

```
};
```

```
void push ( struct Stack *s, int x);
```

```
int pop ( struct Stack *s);
```

```
int main ()
```

```
{
```

```
    struct Stack s;
```

```
    int i, x;
```

```
    s.top = -1;
```

```
    for ( i = 1; i <= 6; i++)
```

```
    {
```

```
        printf ("Enter ele:");
```

```
        scanf ("%d", &x);
```

```
        push (&s, x);
```

```
    }
```

```
    for ( i = 1; i <= 6; i++)
```

```
    {
```

```
        x = pop (&s);
```

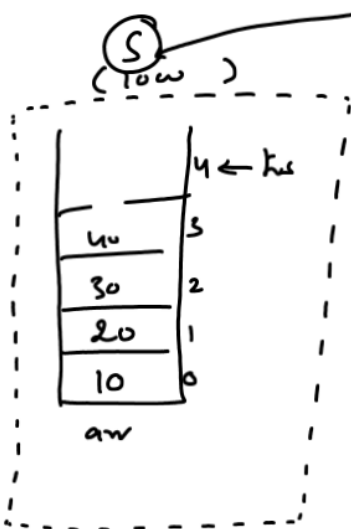
```
        printf ("\n Popped ele = %d", x);
```

```
    }
```

```
    }
```

```
    return 0;
```

```
}
```



```
void push ( struct Stack *p, int x)
```

```
{
```

```
    if (p->top == 4)
```

```
    {
```

```
        printf ("Stack Overflow");
```

```
        return;
```

```
    }
```

```
    p->top = p->top + 1;
```

```
    p->arr[p->top] = x;
```

```
    printf ("\n Pushed %d", x);
```

```
}
```

```

int pop (struct Stack *p)
{
    int x;
    if (p->hs == -1)
    {
        printf("Stack Underflow");
        return -1;
    }
    x = p->arr[p->hs];
    p->hs = p->hs - 1;
    return x;
}

```

Modify the previous code so that now your program , displays 3 options to the user and performs actions according to the user's choice. The 3 options are:

1. PUSH
2. POP
3. QUIT

Make sure that program should terminate only when the user chooses option 3.

SAMPLE OUTPUT

=====

Select an operation:

1. PUSH
2. POP
3. QUIT

Enter your choice: 1

Enter ele to push:10

Pushed 10 successfully

Select an operation:

1. PUSH
2. POP
3. QUIT

Enter your choice:2

Popped 10

Select an operation:

1. PUSH
2. POP
3. QUIT

Enter your choice: 2

Stack underflow

Select an operation:

1. PUSH
2. POP
3. QUIT

Enter your choice: 4

Invalid choice. Try Again

Select an operation:

1. PUSH
2. POP
3. QUIT

Enter your choice:3

Thank you for using the app. Have a good day!