

```
#include <stdio.h>
```

```
#include <process.h>
```

```
#include <conio.h>
```

```
#define stack-size 5
```

```
int top = -1;
```

```
void push (int item, int s[], int top)
```

```
{  
    if (top == stack-size - 1)
```

```
{  
        printf ("Stack overflow\n");  
        return;
```

```
}  
    s[top] = top + 1;
```

```
    s[top] = item;
```

```
}  
int pop (int s[], int top) int count count)
```

```
{  
    int item-deleted;
```

```
    if (top == -1)
```

```
{  
        printf ("Stack underflow can't delete\n");  
        return 0;
```

```
}  
    item-deleted = s[top];
```

```
    top = top - 1; count = count + 1;
```

```
    return item-deleted;
```

```

void display (int top, int S[])
{
    int i ;
    if (top == -1)
    {
        pf ("stack is empty \n");
        return;
    }

```

```

    pf ("Contents of stack \n");
    for (i = 0; i <= top; i++)
    {
        pf ("%d \n", S[i]);
    }
}

```

```

void main ()
{

```

```

    int item, S[10]; // item deleted;
    int choice, count;
    for ( ; ; )
    {

```

```

        pf ("\n 1: push\n 2: pop\n 3: display\n 4 for exit \n");

```

```

        pf ("Enter choice \n");

```

```

        sf ("%d", &choice);
    }
}

```



```
switch (choice)
```

```
{
```

```
case 1: pf("Enter the item to be  
inserted\n");
```

```
sf("%d", &item);
```

```
push(item, s, top);
```

```
break;
```

```
case 2: item_deleted = pop(s, top);
```

```
if (item_deleted != 0)
```

```
pf("Item deleted %d\n",  
item_deleted);
```

```
break;
```

```
case 3: display(top, s);
```

```
break;
```

```
default: exit(0);
```

```
}
```

```
}
```

```
getch();
```

```
}
```