E&TC-B3
2007012320
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Stacks

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

#define MAX = 5

int top = -1, stack [MAX];
void push (void);
void pop (void);
void display (void);

int main (){
    int ch;
    while (1){
        printf ("\n*** Stack Menu ***");
        printf ("\n\n1.Push \n2.Pop \n3.Display \n4. Exit");
        printf ("\nEnter your choice (1-4): ");
        scanf ("%d", &ch);

        switch(ch) {
            case 1: push();
                break;
            case 2: pop();
                break;
            case 3: display();
                break;
            case 4: exit(0);
            default : printf ("\nWrong Choice!");
        }
    }
}
```

ERTC-B3
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Stacks

```
void push(){
    int val;
    if (top = MAX-1){
        printf ("\n Stack is full!");}
    Scanf ("%d", &val);
    top = top+1;
    Stack [top] = val;
  }
}

void pop() {
    if (top ==1){
        printf (" Stack is empty!");
    }
    else {
        printf ("\n Deleted element is %d", stack[top]);
        top = top-1;
    }
}

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