/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Online C Compiler.

Code, Compile, Run and Debug C program online.

Write your code in this editor and press "Run" button to compile and execute it.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

#include<stdio.h>

void push(int,int[]); //first int for number and next int for array declaration

void pop(int[]);

void isempty(int[]);

void isfull(int[]);

void display(int[]);

int top=-1; //first we need to check whether the stack is empty or not so only -1

int main()

{

int a[10];

push(5,a);

push(8,a);

push(9,a);

pop(a);

pop(a);

isempty(a);

isfull(a);

return 0;

}

void push(int n,int a[])

{

if(top!=10 ) //first we need to check stack is full or not if it is not full do increment

{

top++; //push condition

a[top]=n;

printf("stack is going to be filled\n");

display(a);

}

else

{

printf("overflow\n");

}

}

void display(int a[])

{

if(top!=-1) //this will chech whether th stack is empty if it is not empty it will check the condition

{

for(int i=top;i>=0;i--)

{

printf("%d\n",a[i]);

}

}

}

void pop(int a[])

{

if(top!=-1)

{

top--; //pop condition

printf("stack\n");

display(a);

}

}

void isempty(int a[])

{

if(top==-1) //isempty condition

{

printf("empty\n");

}

else

printf("not empty\n");

}

void isfull(int a[])

{

if(top==10) //isfull condition

{

printf("full\n");

}

else

printf("not full\n");

}