1) Write a C program to find the maximum element in the stack..

#include <stdio.h>

#include <stdlib.h>

int data[10000],top,max=0;

void push()

{

int item;

scanf("%d",&item);

top++;

data[top]=item;

if(max < data[top])

max = data[top];

}

void pop()

{

int i;

if(max == data[top])

max=0;

top--;

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

if(max < data[i])

max = data[i];

}

int main()

{

int t,n,choice;

top = -1;

scanf("%d",&t);

while(t--)

{

scanf("%d",&choice);

switch(choice)

{

case 1 : push();

break;

case 2: pop();

break;

case 3: printf("%d\n",max);

break;

}

}

return 0;

}

2) write a function to find a minimum element in the stack...

#include <stdio.h>

#include <stdlib.h>

int data[10000],top,min=0;

void push()

{

int item;

scanf("%d",&item);

top++;

data[top]=item;

if(min>data[top])

min = data[top];

}

void pop()

{

int i;

if(min == data[top])

min=0;

top--;

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

if(min>data[i])

min= data[i];

}