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Stack Implementation

Code Id 35

Date Updated 3/7/2010

Title Stack implementation

Description

This is a program to implement stack using array.

Codes Snippet

```
#include
#define MAX 50
struct stack
int top;
int stack_arr[MAX];
pop(struct stack *);
push(struct stack *, int);
overflow(struct stack *);
underflow(struct stack *);
void display(struct stack *);
main()
{
         int choice,n;
          struct stack s;
          s=(struct stack *)malloc(sizeof(struct stack));
          s->top=-1;
         while(1)
          {
                   printf("1.Pushn");
printf("2.Popn");
printf("3.Displayn");
printf("4.Quitn");
printf("Enter your choice : ");
scanf("%d",&choice);
                    switch(choice)
                     case 1:
                              if(!overflow(s))
                                        printf(@n Enter item to be inserted@);
                                        scanf(0%d0,&n);
                             push(s,n);
                    else
                             printf(@n Can@t push @ stack overflow@);
                              exit(1);
                             break;
                     case 2:
                              if(!underflow(s))
                                       pop(s);
                             break;
                   else
                              printf(@n Can@t pop @ stack underflow@);
                              exit(1);
                   }
                                       break:
                     case 3:
                              if(!underflow(s)
                                        display(s);
                   break;
```

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 }/*End of main()*/
 overflow(struct stack *s)
         if(s->top == (MAX-1))
                  return 1;
         else
                  return 0;
 underflow(struct stack *s)
         if(s->top == -1)
                  return 1;
         else
                  return 0;
 push(struct stack *s, int pushed_item)
         int pushed_item;
         s->top++;
         s->stack_arr[s->top] = pushed_item;
 /*End of push()^{\pm}
 pop()
{
                  return s->stack_arr[s->top];
                  s->top--;
 }/*End of pop()*/
 void display()
 printf(0%d0, s->stack_arr[s->top]);
}/*End of display()*/
```

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