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Evaluating Arithmetic Expression
#include <stdio.h>
#include <string.h>
#define Max 20
int stack [MAX]; int top = -1;
char expr[MAX];
Void Push (int elen);
int pop();
int main()
int i, a, b, c, e;
printf("Enter the post fix expression:");
gets (expr);
for (i=0; i<strlen(expr); i++)
if (expr[i]=='+' || expr[i]==`-' || expr[i] == '*' || expr[i] == '/')
b= pop();
a = pop();
Switch (expr [i])
case '+': c=a+b; push (c); break;
case '-': c=a-b; push (c); break;
case '*': c=a*b; push (c); break;
case '/': c=a/b; push (c); break;
}
else
{
printf(' Enter the value of % C", exp[i]);
Scanf ("%d", &e);
Push (e);
}
printf("The result is %d", pop ());
return 0;
void push (int ele).
top = top + 1;
stack [top]= elem;
}
```

```
intpop ()
{
int e;
e = stack[top];
top=top-1;
return e;
}

Output
Enter the Postfix expression: abc+ *d*
Enter the value of a: 2
Enter the value of b: 3
Enter the value of c: 4
Enter the value of d: 5
The result is 70.
```