```
1 #include <stack>
 2 #include <queue>
 3 #include <iostream>
 4 #include <cmath>
 6 using namespace std;
 7
 8 int main(){
 9
10
       string expresion="ab*b*d/e+";
       int val_a,val_b,val_c,val_d,val_e;
11
12
13
       double aux;
14
15
       //SOLUCION EXPRESION 1=134
16
       //SOLUCION EXPRESION 2=53
17
       //SOLUCION EXPRESION 3=207
18
19
       val_a=5;
20
       val b=3;
21
       val_c=2;
22
       val_d=2;
23
       val_e=9;
24
25
       stack<double> num;
26
27
       for(int i=0;i<expresion.size();i++)</pre>
28
       {
29
            switch (expresion[i])
30
            {
                case 'a':
31
32
                    num.push(val_a);
33
                    break;
                case 'b':
34
35
                    num.push(val_b);
36
                    break;
37
                case 'c':
38
                    num.push(val_c);
39
                    break;
40
                case 'd':
                    num.push(val_d);
41
42
                    break;
43
                case 'e':
44
                    num.push(val_e);
45
                    break;
                case '+':
46
47
                    aux=num.top();
48
                    num.pop();
49
                    aux=num.top()+aux;
50
                    num.pop();
51
                    num.push(aux);
52
                    break;
53
                case '-':
                    aux=num.top();
54
                    num.pop();
55
56
                    aux=num.top()-aux;
57
                    num.pop();
58
                    num.push(aux);
59
                    break;
                case '*':
60
```

14/1/2020 ejercicio06.cpp 61 aux=num.top(); 62 num.pop(); aux=num.top()*aux; 63 64 num.pop(); 65 num.push(aux); break; 66 case '/': 67 aux=num.top(); 68 69 num.pop(); aux=num.top()/aux; 70 71 num.pop(); 72 num.push(aux); 73 break; case '^': 74 75 aux=num.top(); 76 num.pop(); aux=pow(num.top(),aux); 77 78 num.pop(); 79 num.push(aux); 80 break; 81 } 82 83 cout << num.top() << endl;</pre> 84 }

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