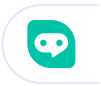


Submitted Files

Results	Code
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```
1  #include<stdio.h>
2  #include<stdlib.h>
3  #include<math.h>
4  #include<limits.h>
5  #define MAX 100
6  int op(int a,int b,int o){
7  switch(o){
8  case-1:return a-b;
9  case-2:return a+b;
10 case-3:return a*b;
11 case-4:return a/b;
12 case-5:return pow(a,b);
13 default:return 0;
14 }
15 }
16 int pre(int o){
17 if(o==5)return 3;
18 if(o==3||o==4)return 2;
19 if(o==1||o==2)return 1;
20 return 0;
21 }
22 int ra(int o){
23 return o==5;
24 }
25 int ev(int ex[],int n){
26 int v[MAX],p[MAX],vt=-1,pt=-1;
27 for(int i=0;i<n;i++){
28 if(ex[i]>=0){
29 v[++vt]=ex[i];
30 }
31 else if(ex[i]==-6){
32 p[++pt]=-6;
33 }
34 else if(ex[i]==-7){
35 while(p[pt]!=-6){
36 int b=v[vt--];
37 int a=v[vt--];
38 int o=p[pt--];
39 v[++vt]=op(a,b,o);
40 }
41 pt--;
42 }
43 else{
44 while(pt!=-1&&p[pt]!=-6&&(pre(p[pt])>pre(ex[i])||
45 (pre(p[pt])==pre(ex[i])&&!ra(ex[i])))){
46 int b=v[vt--];
47 int a=v[vt--];
48 int o=p[pt--];
49 v[++vt]=op(a,b,o);
```



```
49 }
50 p[++pt]=ex[i];
51 }
52 }
53 while(pt!=-1){
54     int b=v[vt--];
55     int a=v[vt--];
56     int o=p[pt--];
57     v[++vt]=op(a,b,o);
58 }
59 return v[vt];
60 }
61 int mcm(int a[],int n){
62     int**dp=(int**)malloc(n*sizeof(int*));
63     for(int i=0;i<n;i++){
64         dp[i]=(int*)malloc(n*sizeof(int));
65         for(int j=0;j<n;j++)dp[i][j]=0;
66     }
67     for(int l=2;l<n;l++){
68         for(int i=1;i<n-l+1;i++){
69             int j=i+l-1;
70             dp[i][j]=INT_MAX;
71             for(int k=i;k<j;k++){
72                 int c=dp[i][k]+dp[k+1][j]+a[i-1]*a[k]*a[j];
73                 if(c<dp[i][j])dp[i][j]=c;
74             }
75         }
76     }
77     int r=dp[1][n-1];
78     for(int i=0;i<n;i++)free(dp[i]);
79     free(dp);
80     return r;
81 }
82 int main(){
83     int o;
84     if(scanf("%d",&o)!=1)return 1;
85     if(o==0){
86         int n;
87         if(scanf("%d",&n)!=1||n<=0)return 1;
88         int ex[n];
89         for(int i=0;i<n;i++){
90             if(scanf("%d",&ex[i])!=1)return 1;
91         }
92         printf("%d",ev(ex,n));
93     }
94     else if(o==1){
95         int n;
96         if(scanf("%d",&n)!=1||n<=1)return 1;
97         int a[n];
98         for(int i=0;i<n;i++){
99             if(scanf("%d",&a[i])!=1)return 1;
100     }
```

```
101 printf("%d",mcm(a,n));
102 }
103 return 0;
104 }
105
```



PS1

● Ungraded

Student

JYANSHU DHAKA

Total Points

- / 100 pts

Autograder Score

- / 100.0

Passed Tests

Test 1 (10/10)

Test 2 (10/10)

Test 3 (10/10)

Test 4 (10/10)