```
#include <bits/stdc++.h>
using namespace std;
int main()
{
    int n;
    cout<<"Enter number of statements:\n";</pre>
    cin >> n;
    cout<<"Enter "<<n<<" three address statements:\n";</pre>
    vector<vector<char>> vec;
    for (int i = 0; i < n; i++)
    {
        vector<char> v;
        for (int j = 0; j < 5; j++)
        {
            char c;
            cin >> c;
            v.push back(c);
        }
        vec.push back(v);
    }
    int k = 0;
    for (int i = 0; i < vec.size(); i++)
    {
        cout << "Mov "
            << "R" << k << "," << vec[i][2] << endl;
        k++;
        cout << "Mov "
            << "R" << k << "," << vec[i][4] << endl;
        if (vec[i][3] == '+')
        {
            cout << "ADD "
                 << "R" << k << " "
                 << "R" << k - 1 << endl;
        }
        else if (vec[i][3] == '*')
```

```
{
              cout << "MUL "
                   << "R" << k << " "
                   << "R" << k - 1 << endl;
         }
         else if (vec[i][3] == '/')
          {
              cout << "DIV "
                   << "R" << k << " "
                   << "R" << k - 1 << endl;
         }
         else if (vec[i][3] == '-')
          {
              cout << "SUB "
                   << "R" << k << " "
                   << "R" << k - 1 << endl;
         }
         cout << "Mov " << vec[i][0] << " "
                << "R" << k << endl;
         k++;
    }
    return 0;
}
  PS D:\SEM6\spcc> cd "d:\SEM6\spcc\" ; if ($?) { g++ exp6code.cpp -o exp6code } ; if ($?) { .\exp6code }
  Enter number of statements:
  Enter 3 three address statements:
  t1=a+b
  t2=c*d
  t3=t1+t2
  Mov R0,=
  Mov R1,+
  Mov t R1
  Mov R2,2
  Mov R3,c
  Mov b R3
  Mov R4,t
  Mov R5,=
  Mov * R5
  PS D:\SEM6\spcc>
```