```
#include<iostream>
using namespace std;
#include<set>
#include<vector>
#include<string>
int ar[5][2];
vector<int> combination;
int Fibonacci(int n)
   if(n==0)
       return 0;
   else if(n==1)
       return 1;
   else if(n>1)
       return Fibonacci(n-1)+Fibonacci(n-2);
   else
       return -1;
}
int path(int right, int down)
   int sum=0;
   //int index = 5 - (right + down);
   if(right == 0 \&\& down== 0)
   { //cout<<"----"<<endl;
       //for(int i=0; i<5; i++)
           cout << ar[i][0]<<" "<< ar[i][1]<<endl;
       return 1;
   if(right>0)
       //ar[index][0] = ar[index-1][0];
       //ar[index][1] = ar[index-1][1] - 1;
       sum=sum + path(right-1, down);
   if(down>0)
       //ar[index][0] = ar[index-1][0]-1;
       //ar[index][1] = ar[index-1][1];
       sum=sum + path(right, down-1);
   return sum;
}
```

```
void pretty print(const vector<int>& v)
    static int count = 0;
    cout << "combination no " << (++count) << ": [ ";
   for (int i = 0; i < v.size(); ++i)
    {
       cout << v[i] << " ";
    cout << "] " << endl;
}
void go(vector<int> people, int offset, int k)
{
    if (k == 0)
    {
       pretty print(combination);
       return;
   for(int i=offset; i<=people.size()-k; i++)</pre>
       combination.push back(people[i]);
       go(people, i+1,k-1);
       combination.pop back();
    }
}
void allsubset(vector<int> myset, int com)
{
    if(com>myset.size())
        return;
    go(myset,0, com); //com-lu combinatlari print et
    allsubset(myset, com+1);
   for(; com<=myset.size(); com++)
       go(myset,0, com);
}
```

```
void swap(char *x, char *y)
                                                                 int cents2(int n, int denom)
                                                                 {
  char temp;
                                                                     int next_den = 0;
  temp = *x;
  *x = *y;
                                                                         if(denom==25)
  *y = temp;
                                                                             next den=10;
                                                                         else if(denom==10)
void permutation(char* front, int left, int right)
                                                                             next den=5;
                                                                         else if(denom==5)
    if(left==right)
                                                                             next den=1;
        printf("%s\n", front);
                                                                         else if(denom==1)
    else
                                                                             return 1;
    {
        for(int i=left; i<=right; i++)</pre>
                                                                         int ways = 0;
                                                                         for(int i=0;i*denom<=n;i++)</pre>
            swap((front+left),(front+i));
            permutation(front, left+1,right);
                                                                             ways += cents2(n - i * denom, next den);
            swap((front+left),(front+i));
        }
                                                                         return ways;
    }
                                                                 }
}
                                                                 int main()
                                                                 {
void printParanthesis(int I, int r, char str[],int count)
                                                                     cout<<Fibonacci(5)<<endl;
                                                                     arraya[0][0]=2;
                                                                     arraya[0][1]=2;
    if(l==0 \&\& r==0)
                                                                    cout<<path(2,2)<<endl;
    {
        cout<<str<<endl;
                                                                 //set<int>myset;
                                                                 // for(int i=0; i<8; i++)
        return;
                                                                         myset.insert(i);
                                                                 //
    }
    if(I>0)
                                                                 vector<int>myset;
                                                                     for(int i=0; i<3; i++)
        str[count]='(';
                                                                         myset.push back(i);
        printParanthesis(l-1,r,str,count+1);
                                                                     allsubset(myset, 1);
    if(r>l)
                                                                     string myname="bat";
    {
                                                                     char* front=&myname[0];
        str[count]=')';
                                                                     permutation(front,0,2);
        printParanthesis(l,r-1,str,count+1);
                                                                     char str[3*2];
    }
                                                                     printParanthesis(3,3,str,0);
}
                                                                     cout<<cents(1,25)<<endl;
                                                                     cout<<cents(5,25)<<endl;
                                                                     cout<<cents(10,25)<<endl;
```

//cout<<cents(25,25)<<endl;}