Pseudo Code

- 1) Initialize T for Test cases,
- Starting a loop for ever single T ,
- 3) Initialize flag, string,
- 4) Check the value of string length, if length in less than 3 than print DYNAMIC,
- 5) Initialize a map which take the values of string.
- 6) Initialize a vector,
- 7) Perform a loop on map and put map->second value in vector,
- 8) Then applying sorting on vector
- 9) Now perform a check on if vector[3] != vector[2]+vector[1], then swap the value of vector[0], vector[1],
- 10) Perform a loop which iterate on vector and if vector[i]!=vector[i-1]+vector[i-2] then increase the value of flag by 1 and break.
- 11) Now check the value of flag if flag = 0 then print DYNAMIC else Not.

Implementation

```
#include<iostream>
#include <bits/stdc++.h>
using namespace std;
#define II long long
int main() {
       II T;
       cin>>T;
       while(T--)
          II flag=0;
          string S;
          cin>>S;
          if(S.length()<3)
            cout<<"Dynamic"<<endl;
            continue;
          }
          map<char, II> mVar;
          vector<ll> array1;
          II tmp[100001]={0};
          for(II i=0;i<S.length();i++)
            mVar[S[i]]++;
```

```
for(auto var:mVar)
            II ins=var.second;
             array1.push_back(ins);
          }
          sort(array1.begin(),array1.end());
          if(array1[3]!=array1[2]+array1[1])
          {
            swap(array1[0],array1[1]);
          for(II i=2;i<array1.size();i++)</pre>
            if(array1[i]!=array1[i-1]+array1[i-2])
               flag++;
               break;
            }
          }
 if(flag==0)
             cout<<"Dynamic"<<endl;
          }
          else
          {
            cout<<"Not"<<endl;
          }
       }
       return 0;
}
```