```
406410114 UVA10415 Eb Alto Saxophone Player
#include <bits/stdc++.h>
using namespace std;
void finger add( int finger[],int add[],int n ){
           int i, j, k;
           for ( i = 0; i < n; i++ ) {
                      finger[add[i]]++;
           }//for
}//finger add
int main(){
           int i,j,k,t_num;
           char octave[] = "XcdefgabCDEFGAB";
          char octave[] = "XcdefgabCDEFGAB";
char finger_info[16][11] = {
  "0000000000"/*X*/,"0111001111"/*c*/,
  "0111001110"/*d*/,"0111001100"/*e*/,
  "0111001000"/*f*/,"01110000000"/*g*/,
  "0110000000"/*a*/,"01100000000"/*b*/,
  "0010000000"/*c*/,"1111001110"/*D*/,
  "1111001100"/*G*/,"1111001000"/*A*/,
  "11100000000"/*B*/).
           "1100000000"/*B*/};
           cin >> t_num;
int cur = 0,next;
           while( t_num-- ){
                       string s;
                      cin >>s;
                      int finger[10] ;
                      fill ( finger, finger+10,0 );
                      for ( i = 0; i < s.length(); i++ ){
                                  for ( next = 1;octave[next] !=s[i];next++ )
                                  ;// run
if ( i == 0 ) {
                                             for( j = 0; j < 10; j ++ )
                                                        if( finger_info[next][j] =='1' )
                                                                    finger[j]++;
                                  }//if
                                  else{
                                             for( j = 0; j < 10; j + + )
                                                        if( finger_info[cur][j] =='0' && finger_info[next][j] =='1' )
                                                                    finger[j]++;
                                  }//else
                                  cur = next;
                       }//for
                       for ( i = 0; i < 10; i++ ) {
                                  cout << finger[i] ;</pre>
                                  if ( i <9 )
                                             cout <<" ";
                       }//for
                      cout <<endl;
           }//while
           return 0;
}//main()
```