1. <a href="https://leetcode.com/problems/count-and-say/">https://leetcode.com/problems/count-and-say/</a> nahi bna

2. <a href="https://practice.geeksforgeeks.org/problems/longest-palindrome-in-a-string/0">https://practice.geeksforgeeks.org/problems/longest-palindrome-in-a-string/0</a>

```
#include<iostream>
#include<bits/stdc++.h>
using namespace std;
int main()
{
        //code
        int t;
        cin>>t;
        while(t--)
           string str;
          cin>>str;
          int len=str.size();
          int dp[len][len];
          memset(dp,0,sizeof(dp));
          for(int i=0;i<len;i++)</pre>
          {
            dp[i][i]=1;
          }
          int size=1,start=0;
          for(int i=0;i<len-1;i++)
          {
            if(str[i]==str[i+1])
               if(size<2)
               {
                 size=2;
                 start=i;
               dp[i][i+1]=1;
          }
for(int i=3;i<=len;i++)
{
```

```
for(int j=0;j<=len-i;j++)</pre>
  {
    int k=i+j-1;
    if(str[j]==str[k]\&\&dp[j+1][k-1])
    \{dp[j][k]=1;
       if(size<i)
       {
         size=i;
         start=j;
       }
    }
  }
}
        for(int i=start;i<start+size;i++)cout<<str[i];</pre>
         cout<<endl;
        }
        return 0;
}
3.https://practice.geeksforgeeks.org/problems/longest-repeating-subsequence2004/1
        int LongestRepeatingSubsequence(string str){
                   // Code here
                   int len=str.size();
                   int dp[len+1][len+1];
                   for(int i=0;i<=len;i++)
                   {
                      dp[i][len]=0;
                      dp[len][i]=0;
                   for(int i=len-1;i>=0;i--)
                      for(int j=len-1;j>=0;j--)
                        if(str[i]==str[j]\&\&i!=j)dp[i][j]=dp[i+1][j+1]+1;
                        dp[i][j]=max(dp[i+1][j],dp[i][j+1]);
                      }
                   }
                   return dp[0][0];
                 }
```

4. https://www.geeksforgeeks.org/print-subsequences-string/

```
#include<iostream>
#include<bits/stdc++.h>
using namespace std;
void print(string input,string output)
   if(input.empty())
     cout<<output<<" ";
     return;
   print(input.substr(1),output+input[0]);//with include 1st char//
   print(input.substr(1),output);
}
int main()
  string output="";
  string input;
  cin>>input;
  print(input,output);
  return 0;
5. <a href="https://practice.geeksforgeeks.org/problems/permutations-of-a-given-string2041/1">https://practice.geeksforgeeks.org/problems/permutations-of-a-given-string2041/1</a>
Nahi bna
     6. <a href="https://practice.geeksforgeeks.org/problems/median-in-a-row-wise-sorted-matrix1527/1#">https://practice.geeksforgeeks.org/problems/median-in-a-row-wise-sorted-matrix1527/1#</a>
class Solution{
public:
   int median(vector<vector<int>> &matrix, int r, int c){
     // code here
     vector<int>res;
     for(int i=0;i<matrix.size();i++)</pre>
     {
        for(int j=0;j<matrix[i].size();j++)</pre>
        {
           res.push_back(matrix[i][j]);
        }
     }
     sort(res.begin(),res.end());
      int len=res.size();
      if(len%2==1)
```

```
{
       len=len/2+1;
     }
     else
     len/=2;
     return res[len-1];
  }
};
    7. <a href="https://leetcode.com/problems/search-in-rotated-sorted-array/">https://leetcode.com/problems/search-in-rotated-sorted-array/</a>
         class Solution {
         public:
            int search(vector<int>& nums, int target) {
              if (nums.size() == 0) return -1;
              int left = 0, right = nums.size()-1;
              int start = 0;
              //1. find index of the smallest element
              while(left < right) {
                 int mid = left + (right-left)/2;
                 if (nums[mid] > nums[right]) {
                   left = mid + 1;
                 } else right = mid;
              }
            //2. figure out in which side our target lies
              start = left;
              left = 0;
              right = nums.size()-1;
              if (target >= nums[start] && target <= nums[right])</pre>
                 left = start;
              else right = start;
            //3. Run normal binary search in sorted half.
              while(left <= right) {
                 int mid = left + (right - left)/2;
                 if (nums[mid] == target) return mid;
                 if (nums[mid] > target) right = mid-1;
                 else left = mid + 1;
              }
```

return -1;

};