DAY 47

INTERVIEW BIT PROBLEMS:

1. Colorful Number

For Given Number N find if its COLORFUL number or not Return 0/1

COLORFUL number:

A number can be broken into different contiguous sub-sequence parts.

Suppose, a number 3245 can be broken into parts like 3 2 4 5 32 24 45 324 245.

And this number is a COLORFUL number, since product of every digit of a contiguous sub-sequence is different

Example:

this number is a COLORFUL number since product of every digit of a sub-sequence are different.

Output: 1

CODE:

PYTHON

class Solution:

```
# @param A: integer
# @return an integer
def colorful(self, A):
    str_A=str(A)
    n=len(str_A)
    |=[]
    p=0
    for i in range(n):
        p=1
        for j in range(i,n):
            p*=int(str_A[j])
            if p in I:
                 return 0
            else:
                 1.append(p)
    return 1
```

```
int Solution::colorful(int A) {
    string num = to_string(A);
    unordered_map<long long, bool>hash;
    for(int i=0;i<num.length();i++) {
        long long mul = 1;
        for(int j=i;j<num.length();j++){
            mul*=(num[j]-'0');
            if(hash.find(mul)!=hash.end())
                 return 0;
            hash[mul]=true;
        }
    }
    return 1;
}</pre>
```