401. Binary Watch

题目描述: https://leetcode.com/problems/binary-watch/

4位数代表小时,6位数代表分钟。求给定1的个数,有多少种事件组合。 例如:

```
Input: n = 1
Return: ["1:00", "2:00", "4:00", "8:00", "0:01", "0:02", "0:04", "0:08", "0:16
", "0:32"]
```

解题思路:

subset模式~,注意不要算重复了。。

代码:

```
class Solution {
public:
    vector<string> readBinaryWatch(int num) {
        vector<string> res;
        for(int i = 0; i <= num && i <= 4; i++) {
            int h = 0, m = 0;
            vector<int> tmp1;
            GetTime(tmp1, h, 0, i, 4);
            vector<int> tmp2;
            GetTime(tmp2, m, 0, num - i, 6);
            for(auto hour: tmp1) {
                for(auto minute: tmp2) {
                     string s = to_string(hour) + ":";
                     if(minute < 10) {</pre>
                         s = s + "0";
                     s = s + to_string(minute);
                     res.push_back(s);
                }
            }
        }
        return res;
    void GetTime(vector<int> &res, int s, int pos, int n, int limit) {
        if(n == 0) {
            if(limit == 4 && s < 12) {
                res.push_back(s);
            if(limit == 6 && s < 60) {
                res.push_back(s);
            }
            return;
        }
        for(int i = pos; i < limit; i++) {</pre>
            GetTime(res, s+pow(2,i), i+1, n-1, limit);
        }
    }
};
```