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// https://www.geeksforgeeks.org/generate-binary-strings-without-consecutive-1s/
#include<bits/stdc++.h>
using namespace std ;
void generateAllStringsUtil(int K, char str[], int n, vector<string> &ans)
        {
                str[n] = ' \setminus 0';
                ans.push_back(str);
                return ;
        }
        if (str[n-1] == '1')
                str[n] = '0';
                generateAllStringsUtil (K , str , n+1, ans);
        }
        if (str[n-1] == '0')
        {
                str[n] = '0';
                generateAllStringsUtil(K, str, n+1, ans);
                str[n] =
                generateAllStringsUtil(K, str, n+1, ans);
        }
}
void generateAllStrings(int K , vector<string> &ans)
{
        if (K <= 0)
                return ;
        char str[K];
        str[0] = '0';
        generateAllStringsUtil ( K , str , 1 , ans) ;
        str[0] = '1';
        generateAllStringsUtil ( K , str , 1 , ans);
}
int main()
{
        int K = 9;
        vector<string> ans;
        generateAllStrings (K, ans) ;
        string s = ans[K];
        int i = 0:
        while (s[i] == '0') {
                i++;
        s.erase(0, i);
        cout << s << endl;</pre>
        return 0;
}
```