Problem Link:

<https://leetcode.com/problems/lexicographical-numbers/?envType=daily-question&envId=2025-06-08>

Solution:

class Solution {

public:

vector<int> lexicalOrder(int n) {

vector<int> v;

string c = "1";

for(int i = 0; i < n; ++i)

{

v.push\_back(stoi(c));

if(stoi(c + "0") <= n)

{

c += "0";

}

else

{

while(!c.empty() && (c.back() == '9' || stoi(c) + 1 > n))

{

c.pop\_back();

}

if(!c.empty())

{

c = to\_string(stoi(c) + 1);

}

}

}

return v;

}

};