

Generate all valid parentheses

```
1. #include <iostream>
2. #include<bits/stdc++.h>
3. using namespace std;
4. void find_bal_par(int open,int close,string op,vector<string> &v)
5. {
6.     if(open==0&&close==0)
7.     {
8.         v.push_back(op);
9.         return;
10.    }
11.    if(open!=0)
12.    {
13.        string op1 = op;
14.        op1.push_back('(');
15.        find_bal_par(open-1,close,op1,v);
16.    }
17.    if(close>open)
18.    {
19.        string op2=op;
20.        op2.push_back(')');
21.        find_bal_par(open,close-1,op2,v);
22.    }
23.}
24.void find_p(int n)
25.{
26.    vector<string> v;
27.    int open=n,close=n;
28.    string op="";
29.    find_bal_par(open,close,op,v);
```

```
30. for(auto i:v)
31. {
32.     cout<<i<<endl;
33. }
34.}
35.int main() {
36. int n;
37. cin>>n;
38. find_p(n);
39. return 0;
40.}
```

