```
#include <bits/stdc++.h>
using namespace std;
vector<string> v;
string key_main[] = {"asm", "cout", "cin", "else", "new", "this", "auto", "enum", "operator", "throw",
"bool", "explicit", "private", "printf", "true", "break", "export", "protected", "try", "case",
"extern", "public", "typedef", "catch", "false", "register", "typeid", "char", "float",
"reinterpret_cast", "scanf", "typename", "class", "for", "return", "union", "const", "friend", "short",
"unsigned", "const_cast", "goto", "signed", "using", "continue", "if", "sizeof", "virtual", "default",
"inline", "static", "void", "delete", "int", "static_cast", "volatile", "do", "long", "struct",
"wchar_t", "double", "mutable", "switch", "while", "dynamic_cast", "namespace", "template"};
hool fnc key(string a){
bool fnc key(string a){
   for(int i = 0; i < 63; i++) if(a.compare(key_main[i]) == 0) return true;</pre>
   return 0;
void fnc(string s, int a, int b){
   bool f = false;
   for(int i = a - 1; i >= 0; i--){
       if(s[i] != ' '){
         s1 += s[i];
      else if(s[i] == ' ' && f) break;
   for(int i = 0, j = s1.size() - 1; i < (s1.size() - 1) / 2; i++, j--) swap(s1[i], s1[j]);</pre>
   if(!fnc_key(s1) && (s2 == "public" || s2 == "private")){
      for(int i = lo; i < b + 1; s1 += s[i], i++);
       for(int i = lo - 1; i >= 0; i--){
          if(s[i] != ' '){
            s2 += s[i];
         else if(s[i] == ' ' && f) break;
      for(int i = 0, j = s2.size() - 1; i < (s2.size() - 1) / 2; i++, j--) swap(s2[i], s2[j]);
      cout << "Methods: " << s1 << ", return type: " << s2 << endl;</pre>
int main(){
   freopen("input.txt", "r", stdin);
   freopen("output.txt", "w", stdout);
   while(getline(cin, s)){
      stack<pair<char, int> > st;
       for(int i = 0; i < s.size(); i++){</pre>
         if(s[i] == '(') st.push(make_pair('(', i));
             if(st.size() == 1){
                pair<char, int> p = st.top();
                st.pop();
             else if(st.size() > 1) st.pop();
   return 0;
```