```
(a)
bool isCorrect(string str)
{
     for i in str
          if i == '('
               right++
          else if i == ')'
               left++
          if left > right
               return false
     return (right == left)
}
(b)
void print(Stack s)
{
     while s is not empty
          push s's top in stacktoPrint
          pop s
     while stacktoPrint is not empty
          print stacktoPrint's
          pop stacktoPrint
}
(c)
//assume linked stack
void Stack<Item>::print() const
{
     nodePtr = topPtr
     while nodePtr is not nullptr
          push nodePtr->getItem in stacktoPrint
          nodePtr getNext
     nodePtr = stacktoPrint.topPtr
     print nodePtr->getItem
     while(nodePtr's Next is not nullptr)
          nodePtr getNext
          print nodePtr->getItem
}
(d)
```

```
int CnGetk(int n, int k)
{
     Stack<int> nS;
    Stack<int> kS;
     int ans = 0;
    nS.push(n);
     kS.push(k);
     //assume n >= k
    while(!nS.isEmpty() && !kS.isEmpty())
     {
          int a = nS.peek();
          nS.pop();
          int b = kS.peek();
          kS.pop();
          if(b == 1)
          {
               ans += a;
          }
          else if(a == b)
          {
               ans += 1;
          }
          else
          {
               nS.push(a - 1);
               kS.push(b - 1);
               nS.push(a - 1);
               kS.push(b);
          }
     }
     return ans;
}
```