## Data Structure and Advanced Programming Homework 4

## 第一題

(a) Paired parentheses

(b) A bottom-up printer

(c) A bottom-up printer as a member function

## (d) Binomial Coefficient

```
binomialCoefficient(n, k):
Initialize two stack as stackN, stackK
while(k != 0)
stackN.push(n--)
stackK.push(k--)

def
result <- 0
while(!stackN.isEmpty)
result *= stackN.pop()
result /= stackK.pop()
return result</pre>
```