```
Q4:
for (int i = 1; i \le n; i += c) {
   // some 0(1) expressions
\Rightarrow 0(1)+0(1)+0(1)...+0(1)+0(1) total N times
=> N*0(1) = 0(N)
Q5:
// c is constant
for (int i = 1; i \le n; i += c) {
   for (int j = 1; j \le n; j = pow(i, c)) {
      // some 0(1) expressions
}
for (int i = n; i > 0; i += c) {
   for (int j = i+1; j \le n; j *= c) {
      // some 0(1) expressions
}
\Rightarrow 1<sup>st</sup> for loop:
\Rightarrow inner loop: 0(1)+0(1)+0(1)...+0(1)+0(1) total loglogN times
=> outer loop: total N/c times;
= \log \log N*O(1)*N/c = O(\log \log N)*N = O(N\log \log N)
\Rightarrow2<sup>ND</sup> for loop:
\Rightarrow inner loop: 0(1)+0(1)+0(1)...+0(1)+0(1) total logN times
=> outer loop: total N/c times;
\Rightarrow \log N*O(1)*N/c = O(\log N)*N = O(N\log N)
Compare O(NloglogN) and O(NlogN), and use the larger one; O(NlogN) is
larger.
```