

①

| | |
|----------------|--------|
| i = 1 | +1 |
| while (i <= n) | n+1 |
| j = n | n |
| while (1 <= j) | n(n+1) |
| j = j - 1 | n(n) |
| i = i + 1 | n |

②

| | |
|----------------|---------------|
| i = 1 | +1 |
| while (i < 2n) | 2n |
| k = 1 | 2n-1 |
| while (k <= n) | (2n-1)(n+1) |
| if (k % 2) | (2n-1)n |
| print "k" | (2n-1)(n+1)/2 |
| k = k + 1 | (2n-1)n |
| i = i + 1 | 2n-1 |

③

| | |
|------------------|-------------------------------|
| for (i = 0 to n) | n+2 |
| j = n | n+1 |
| while (1 <= j) | (n+1)(log ₂ (n)+2) |
| print "j" | (n+1)(log ₂ (n)+1) |
| j = j / 2 | (n+1)(log ₂ (n)+1) |

④

| | |
|----------------|---|
| i = 1 | +1 |
| while (i <= n) | n+1 |
| j = 1 | n |
| while (j <= i) | $\sum_{i=1}^n (i+1) = (n+1)(n+2)/2 - 1$ |
| print i | $\sum_{i=1}^n i = (n)(n+1)/2$ |
| j = j + 1 | $\sum_{i=1}^n i = n(n+1)/2$ |
| i = i + 1 | n |

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