Computationally very hard to find prime factorization

Next HW: 2.18 - 2.20

2.18
Hint: Write each number as $2^k \cdot l$ where l is odd

(I.16)

Ex: $n = 5$, pick 6 (= $n+1$) numbers between 1 and 10 (= $2n$)

$2^0 \cdot 3$, $2^2 \cdot 1$, $2^0 \cdot 5$, $2^3 \cdot 3$, $2^0 \cdot 7$, $2^3 \cdot 1$

3, 4, 5, 6, 7, 8 → 3|6 and 4|8

2, 3, 4, 5, 7, 9 → 2|4, 3|9

4, 5, 6, 7, 8, 9 → 4|8