- "Consecutive Slices" Parallel Pizza-Eating Algorithm (does <u>not</u> assume N is evenly divisible by P)
  - 1. Define N: How many slices of pizza?
- 2. Define P: How many people?
- Compute slicesPP1 = ceiling(float(N)/P).
- 4. Compute slicesPP2 = slicesPP1 1.
  5. Compute remnants = N % P (the remainder of N/P).
- 6. Assign each slice of pizza a unique number (0..N-1).
- 7. Get your own personal, unique id number (0..19-1).
- 8. Compute start = id \* slicesPP1; stop = start + slicesPP1.
  9. If (remnants > 0) AND (id >= remnants), recompute: start = remnants \* slicesPP1 + (id - remnants) \* slicesPP2;
- 10. For (s = start; s < stop; ++s):

  Eat slice s.

stop = start + slicesPP2.

4 8 12

8

N:

**P**:

id:

start:

stop:

s (slice #s eaten):

slicesPP1:

slicesPP2:

remnants:

16

2 13 14

6

- 8 12
  - 12 16

8-11 12-15