

Simple Parallel Pizza-Eating Algorithm (performed by each person)

1. Define N: How many slices of pizza?
2. Define P: How many people?
3. Compute slices per person (N/P).
4. Get your own personal, unique id number ($0..P-1$).
5. Assign each slice of pizza a unique number ($0..N-1$).
6. Compute your starting slice number ($id * slicesPP$).
7. Compute your stopping slice number ($start + slicesPP$).
8. For ($s = start; s < stop; ++s$):
Eat slice s .

N: 16

P: 4

slicesPP: 4

id: 0 1 2 3

start: 0 4 8 12

stop: 4 8 12 16

s (slice #s eaten): 0-3 4-7 8-11 12-15

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|----|----|----|----|
| 0 | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 |
| 12 | 13 | 14 | 15 |