

PRAM – Example

What does the following PRAM-program, and how fast?
Assume protocol COMMON for solving conflicts.

```
VAR winner : ARRAY [0..n-1] OF BOOLEAN;

FOR ALL  $0 \leq i \leq n - 1$  DO IN PARALLEL
    P0i : winner[i] := TRUE
END;

FOR ALL  $0 \leq i, j \leq n - 1$  DO IN PARALLEL
    Pij : IF a[i] < a[j] THEN winner[i] := FALSE END
END;

FOR ALL  $0 \leq i \leq n - 1$  DO IN PARALLEL
    P0i : IF winner[i] THEN antwort := a[i] END
END;
```