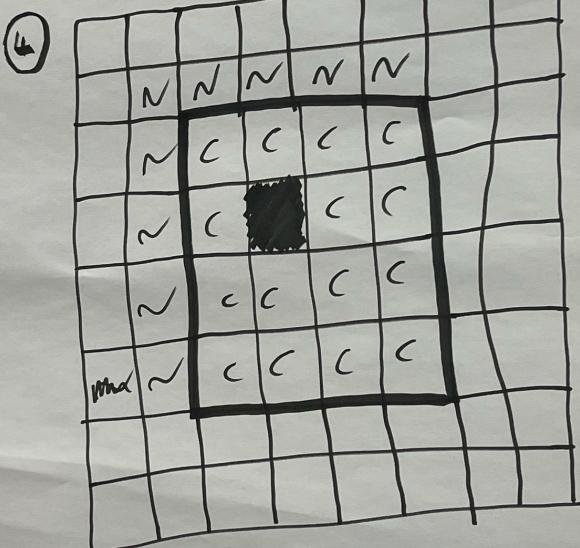
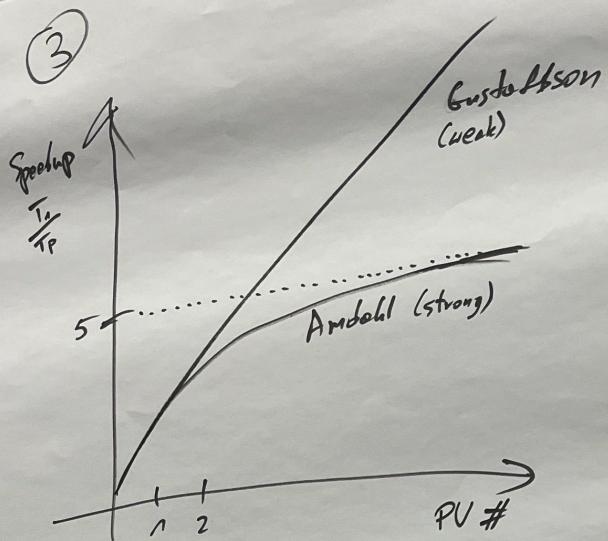


- ① SISD - never there  
 SIMD - dead for 20 years  
 MISD - what is this  
 MIMD - used widely, highest share since the 2000s

Programming concepts: highly parallel operations, minimizing communication between machines while keeping workload high

- ② Topology :- several node groups  
 - each group connected to each other with multiple connections  
 - within each group, the structure is a fat tree

Connection: Mellanox HDR Infiniband, each node connected with 200 Gbps.



Need 48 communications  
 For 16 computations  
 $\Rightarrow \gamma_Q > \gamma_w$  Communication Bound !