

| Phase2 Item   | notes   | Relative points                                    | Name            |  |
|---|---|--|-----------------|--|
| NEW to RDY  | Scheduler picks shortest RDY list   | 3  | Maged Amgad     |  |
| SchedAlgo( ) virtual func requirements  | - Service the RUN process if any<br>- Should the RUN process go to BLK/TRM/RDY or stay in RUN<br>- If no RUN process, get one from RDY<br>- etc | JUST<br>general<br>description<br>for the function |                 |  |
| FCFS processor::SchedAlgo( )  | served based on FCFS  | 3  | Shehab Elhadary |  |
| SJF processor::SchedAlgo( )   | served based on PRI   | 3  | Shehab Elhadary |  |
| RR processor::SchedAlgo( )  | Time slice then move back to RDY  | 4  | Mostafa Osama   |  |
| KILLSIG (FCFS processors only)  | search, Move from RDY/RUN to TRM (call fn in sched)   | 4  | Ahmed Ayman     |  |
| IO_request handling - From RUN to BLK   | Function in Scheduler class, called by the processors   | 2  | Maged Amgad     |  |
| From BLK to RDY (shortest RDY)  | Function in Scheduler class, chk BLK list every time step   | 2  | Ahmed Ayman     |  |
| Process completion - RUN to TRM   | Function in Scheduler class, called by the processors   | 2  | Maged Amgad     |  |
| Fork a child, move to shortest RDY list   | Function in Scheduler class, called by FCFS processors  | 3  | Mostafa Osama   |  |
| KILL ORPH processes   | Move them to TRM  | 4  | Mostafa Osama   |  |
| 3 interface modes   | No code repetition  | 0.5  | Maged Amgad     |  |
| O/P file lines (at the end of simulation)   | - One Line for each process (2)<br>- Processes statistics (1)<br>- Processors statistics (1)  | 4  | Ahmed Ayman     |  |
| <b>For 4-member teams only (not applicable for 3- memeber teams and not bonus for them)</b> |   |  |                 |  |
| Process Migration: 1- RR to SJF (RTF)   | Function in Scheduler class, called by RR processors  | 3  | Shehab Elhadary |  |
| Process Migration: 2- FCFS to RR (MaxW)   | Function in Scheduler class, called by FCFS processors  | 3  | Shehab Elhadary |  |
| Work Stealing   | Function in Scheduler class, chk RDY lists every time step  | 4  | Maged Amgad     |  |
|   |   |  |                 |  |
|   |   |  |                 |  |
|   |   |  |                 |  |
| <b>Bonus Items weights</b>  | Bonus is Max 10% of project grade   |  |                 |  |
| Earliest Deadline First (EDF)   | grade relative to bonus   | 3%   |                 |  |
| Fork Tree   | grade relative to bonus   | 4%   |                 |  |
| Processor Overheat  | grade relative to bonus   | 3%   | Done            |  |
|   |   |  |                 |  |
|   |   |  |                 |  |
| <b>Penalties</b>  |   |  |                 |  |

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|----------------------|--|--|------|--|
| Memory management    | alloc / dealloc appropriately.<br>No copy of cargos/trucks bwtween lists | minus 0 to 10% of item grade when applicable |      |  |
| item not running     |  | minus 30% of item grade                      |      |  |
| class responsibility |  | minus 20% of item grade                      |      |  |
| Trivial test cases   |  | minus 0.5% of phase2 grade                   |      |  |
| Phase2 Report        |  | minus 0.25% of phase2 grade                  |      |  |