Algoritmos



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FIFO

|  |  |  |
| --- | --- | --- |
| Proceso | T. Ejecución | T. Llegada |
| A | 4 | 1 |
| B | 5 | 3 |
| C | 2 | 5 |
| D | 3 | 7 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| D |  |  |  |  |  |  |  | E | E | E | E | E | X | X | X |
| C |  |  |  |  |  | E | E | E | E | E | X | X |  |  |  |
| B |  |  |  | E | E | X | X | X | X | X |  |  |  |  |  |
| A |  | X | X | X | X |  |  |  |  |  |  |  |  |  |  |

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

## FIFO: Un proceso llega y se ejecuta hasta que se termine, mientras que los demás tienen que esperar su tiempo de llegada. (First input, First output).

SJF

|  |  |  |
| --- | --- | --- |
| Proceso | T. Ejecución | T. Llegada |
| A | 4 | 1 |
| B | 5 | 3 |
| C | 2 | 5 |
| D | 3 | 7 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| D |  |  |  |  |  |  |  | E | E | E | E | E | X | X | X |
| C |  |  |  |  |  | E | E | E | E | E | X | X |  |  |  |
| B |  |  |  | E | E | X | X | X | X | X |  |  |  |  |  |
| A |  | X | X | X | X |  |  |  |  |  |  |  |  |  |  |

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

## SJF(Shortest-Job-First): al proceso más corto se le da más prioridad.

SRTF

|  |  |  |
| --- | --- | --- |
| Proceso | T. Ejecución | T. Llegada |
| A | 4 | 1 |
| B | 5 | 3 |
| C | 2 | 5 |
| D | 3 | 7 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| D |  |  |  |  |  |  |  | X | X | X |  |  |  |  |  |
| C |  |  |  |  |  | X | X |  |  |  |  |  |  |  |  |
| B |  |  |  | E | E | E | E | E | E | E | X | X | X | X | X |
| A |  | X | X | X | X |  |  |  |  |  |  |  |  |  |  |

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

## SRTF (Shortst Remaining Time First): se ejecutan los procesos si alguno es más corto que él se está ejecutando se pone en espera y se ejecuta el más corto.

ROUND ROBIN

|  |  |  |
| --- | --- | --- |
| Proceso | T. Ejecución | T. Llegada |
| A | 4 | 1 |
| B | 5 | 3 |
| C | 2 | 5 |
| D | 3 | 7 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| D |  |  |  |  |  |  |  |  |  | X | E | E | X | X |
| C |  |  |  |  |  |  | X | E | X |  |  |  |  |  |
| B |  |  |  | X | E | X | E | X | E | E | X | X |  |  |
| A |  | X | X | E | X | E | X |  |  |  |  |  |  |  |

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

## Round Robin: los procesos se van ejecutando según el quantum(Q) que se le dé (1,2,3).