

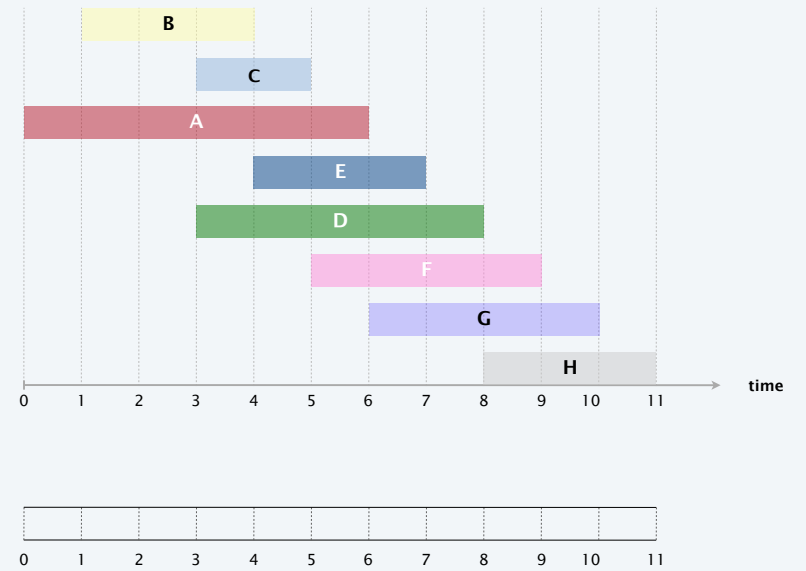
4. GREEDY ALGORITHMS I

▶ *earliest-finish-time-first algorithm demo*

Lecture slides by Kevin Wayne
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<http://www.cs.princeton.edu/~wayne/kleinberg-tardos>

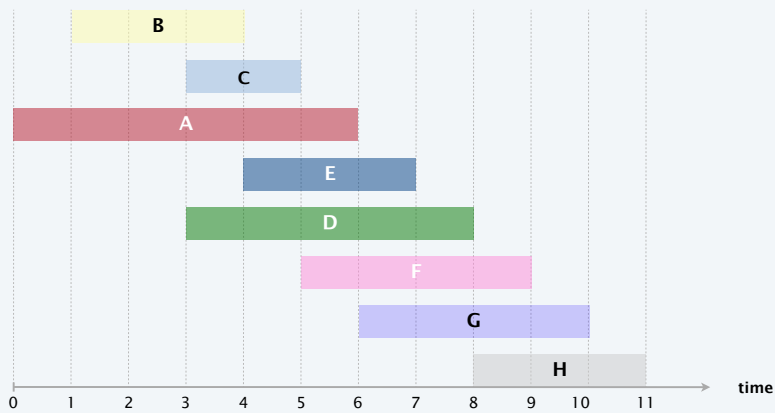
Last updated on 7/25/17 10:58 AM

Earliest-finish-time-first algorithm demo

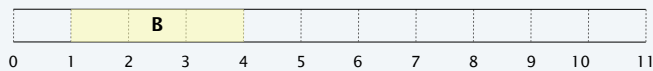


2

Earliest-finish-time-first algorithm demo

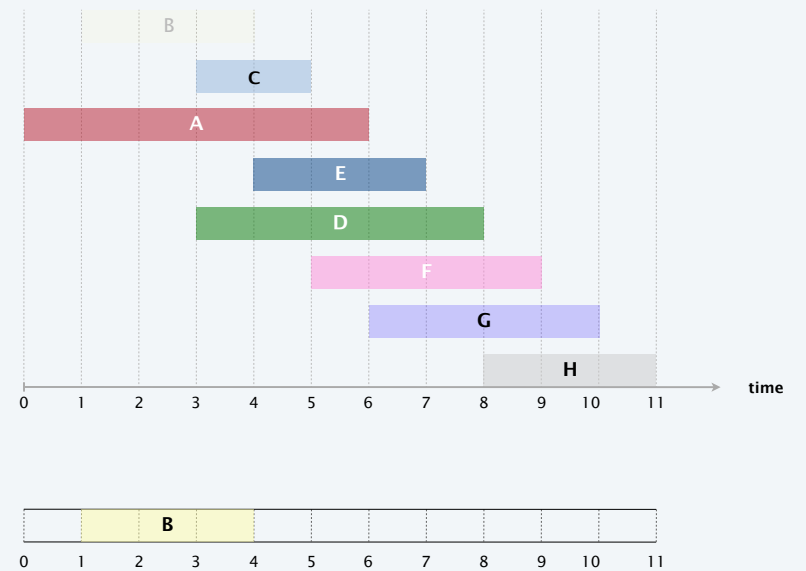


job B is compatible (add to schedule)



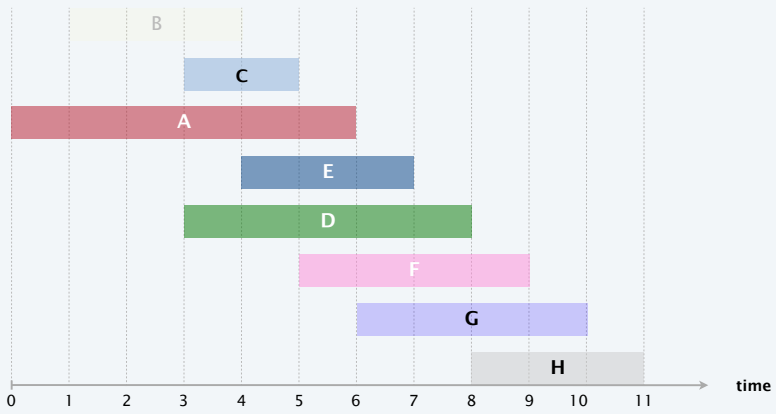
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Earliest-finish-time-first algorithm demo

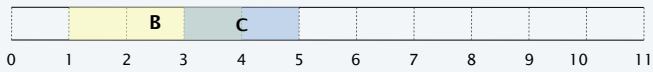


4

Earliest-finish-time-first algorithm demo

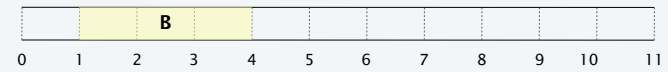
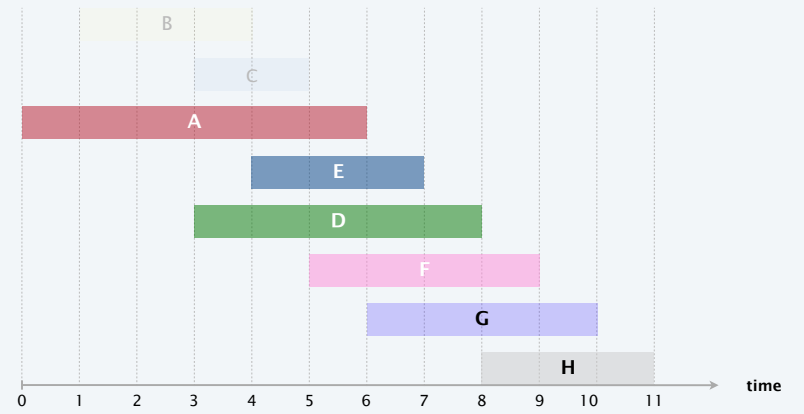


job C is incompatible (do not add to schedule)



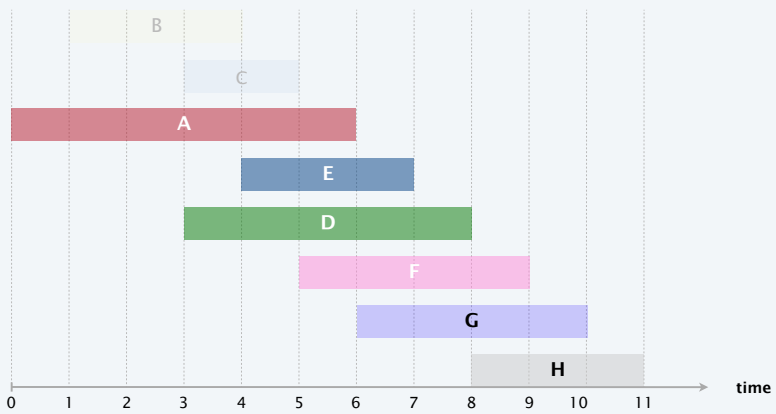
5

Earliest-finish-time-first algorithm demo

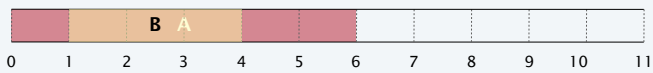


6

Earliest-finish-time-first algorithm demo

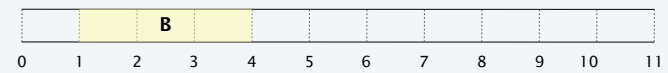
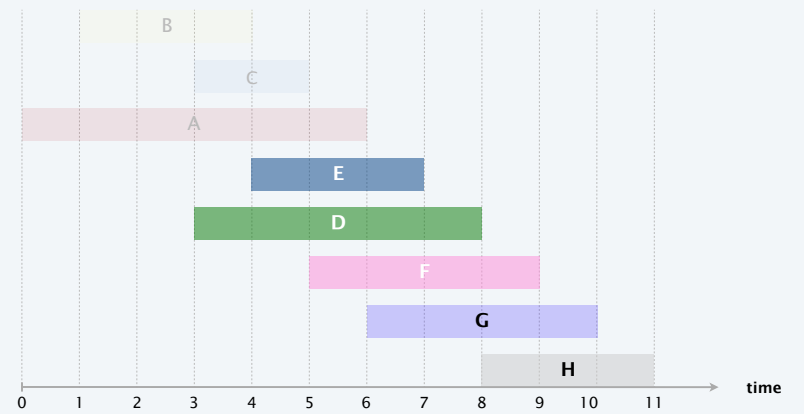


job A is incompatible (do not add to schedule)



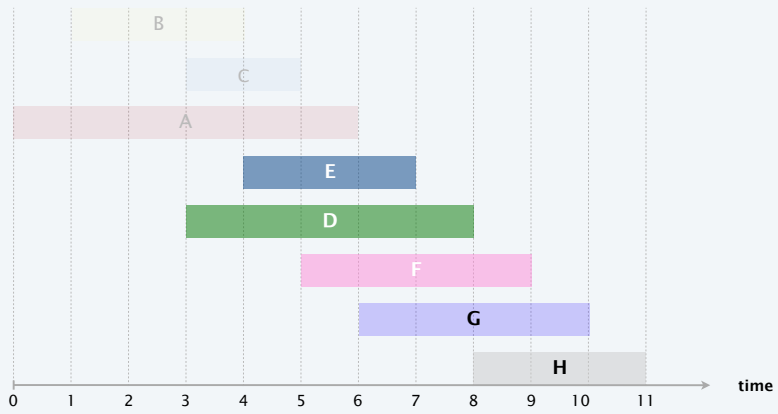
7

Earliest-finish-time-first algorithm demo

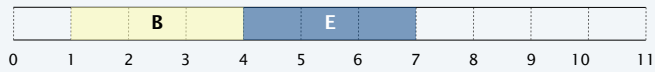


8

Earliest-finish-time-first algorithm demo

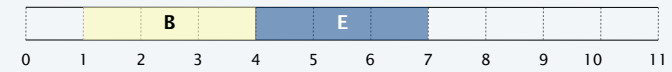
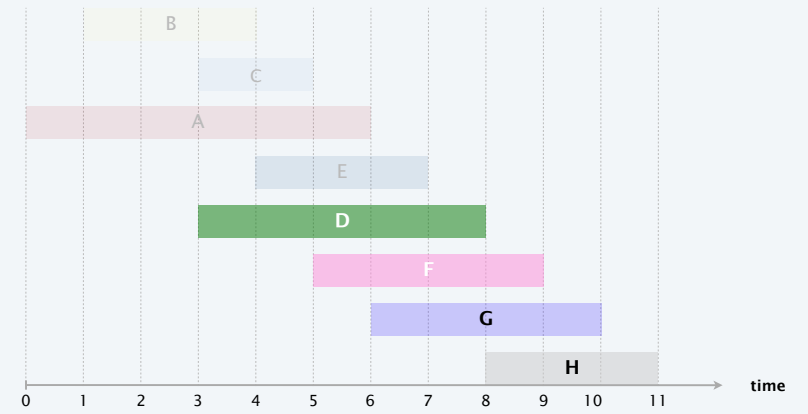


job E is compatible (add to schedule)



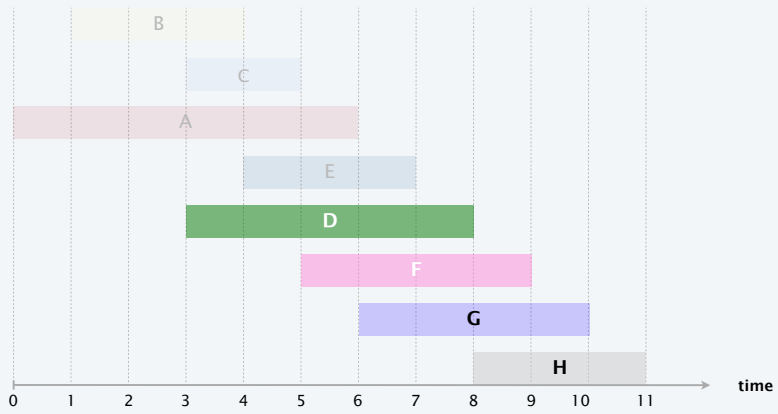
9

Earliest-finish-time-first algorithm demo

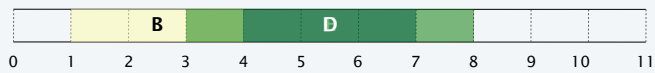


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Earliest-finish-time-first algorithm demo

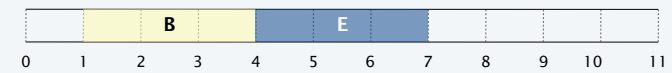
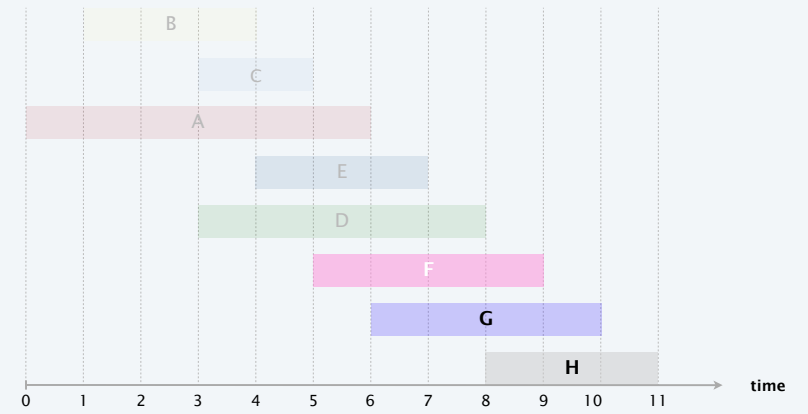


job D is incompatible (do not add to schedule)



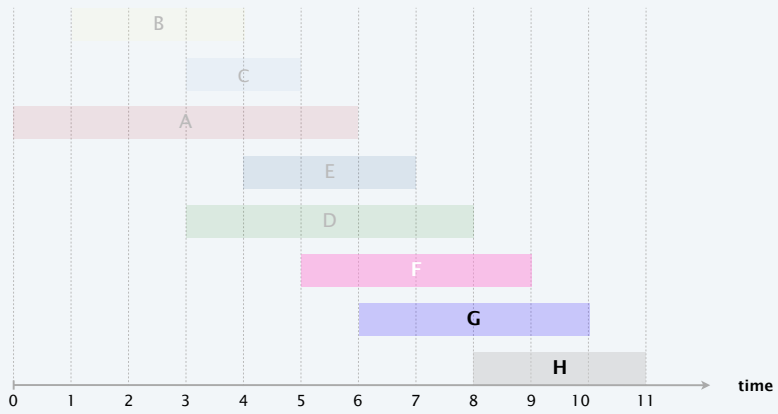
11

Earliest-finish-time-first algorithm demo

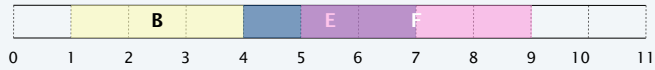


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Earliest-finish-time-first algorithm demo

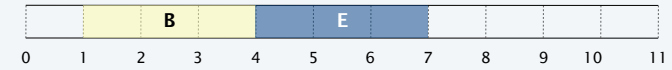
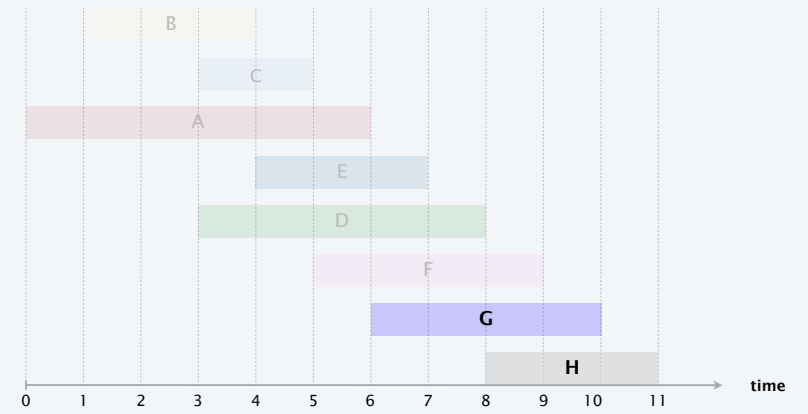


job F is incompatible (do not add to schedule)



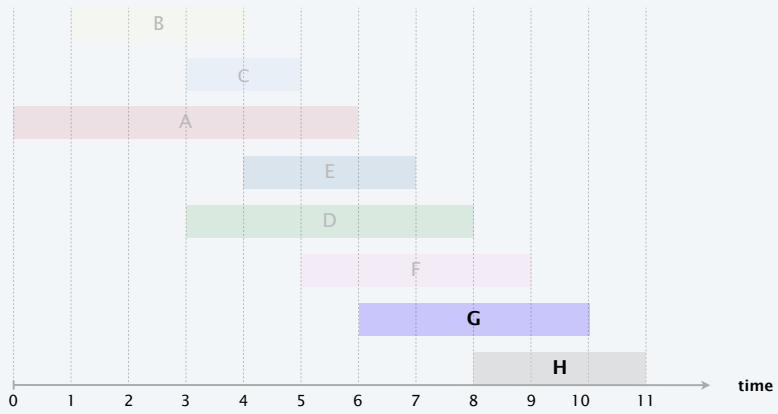
13

Earliest-finish-time-first algorithm demo

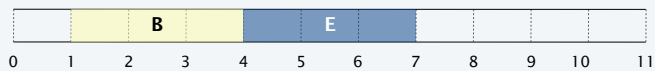


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Earliest-finish-time-first algorithm demo

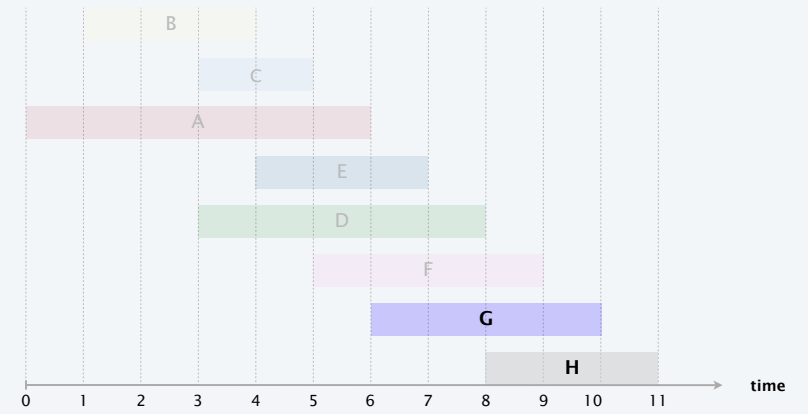


job G is incompatible (do not add to schedule)

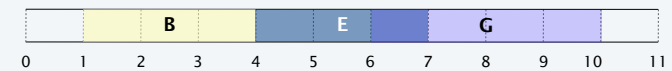


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Earliest-finish-time-first algorithm demo

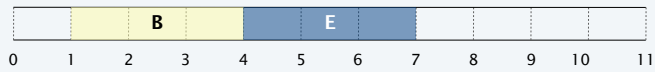
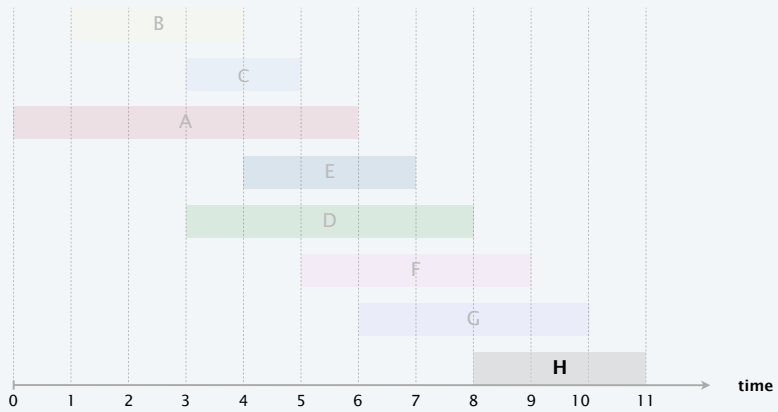


job G is incompatible (do not add to schedule)



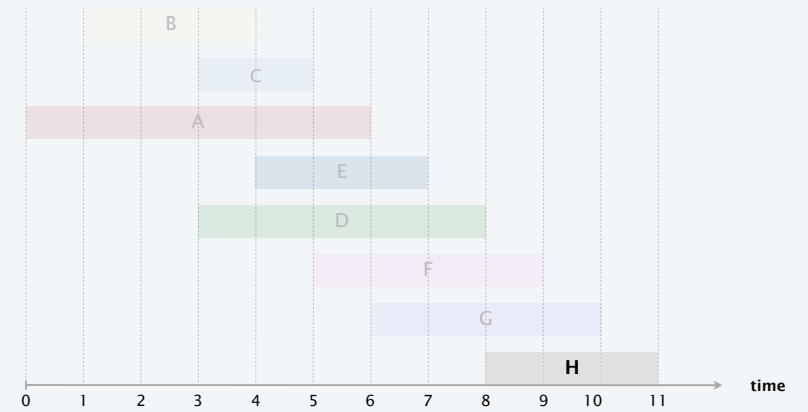
16

Earliest-finish-time-first algorithm demo

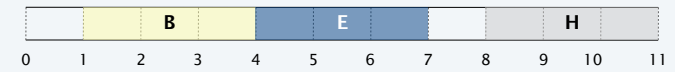


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Earliest-finish-time-first algorithm demo

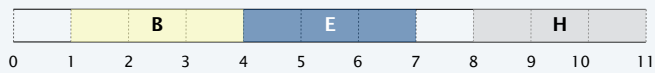
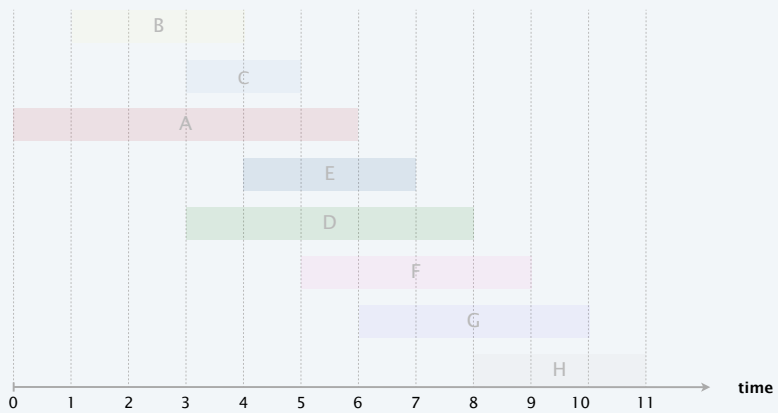


job H is compatible (add to schedule)



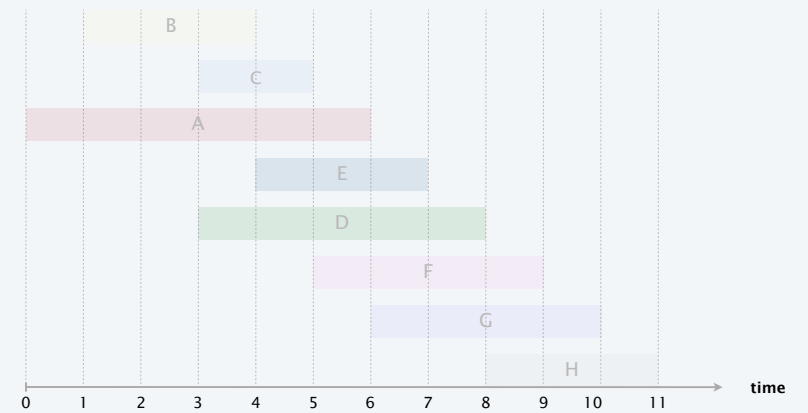
18

Earliest-finish-time-first algorithm demo

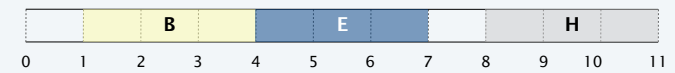


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Earliest-finish-time-first algorithm demo



done (an optimal set of jobs)



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