

4. GREEDY ALGORITHMS I

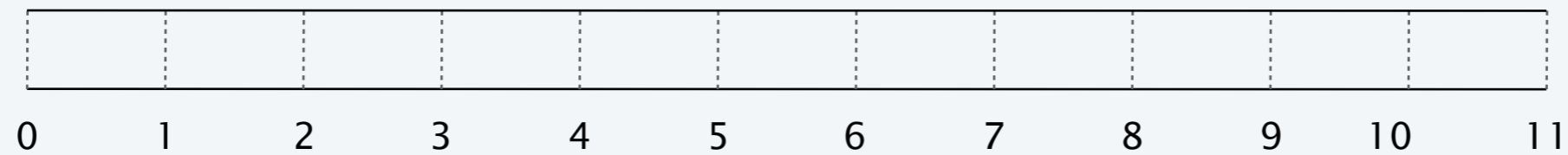
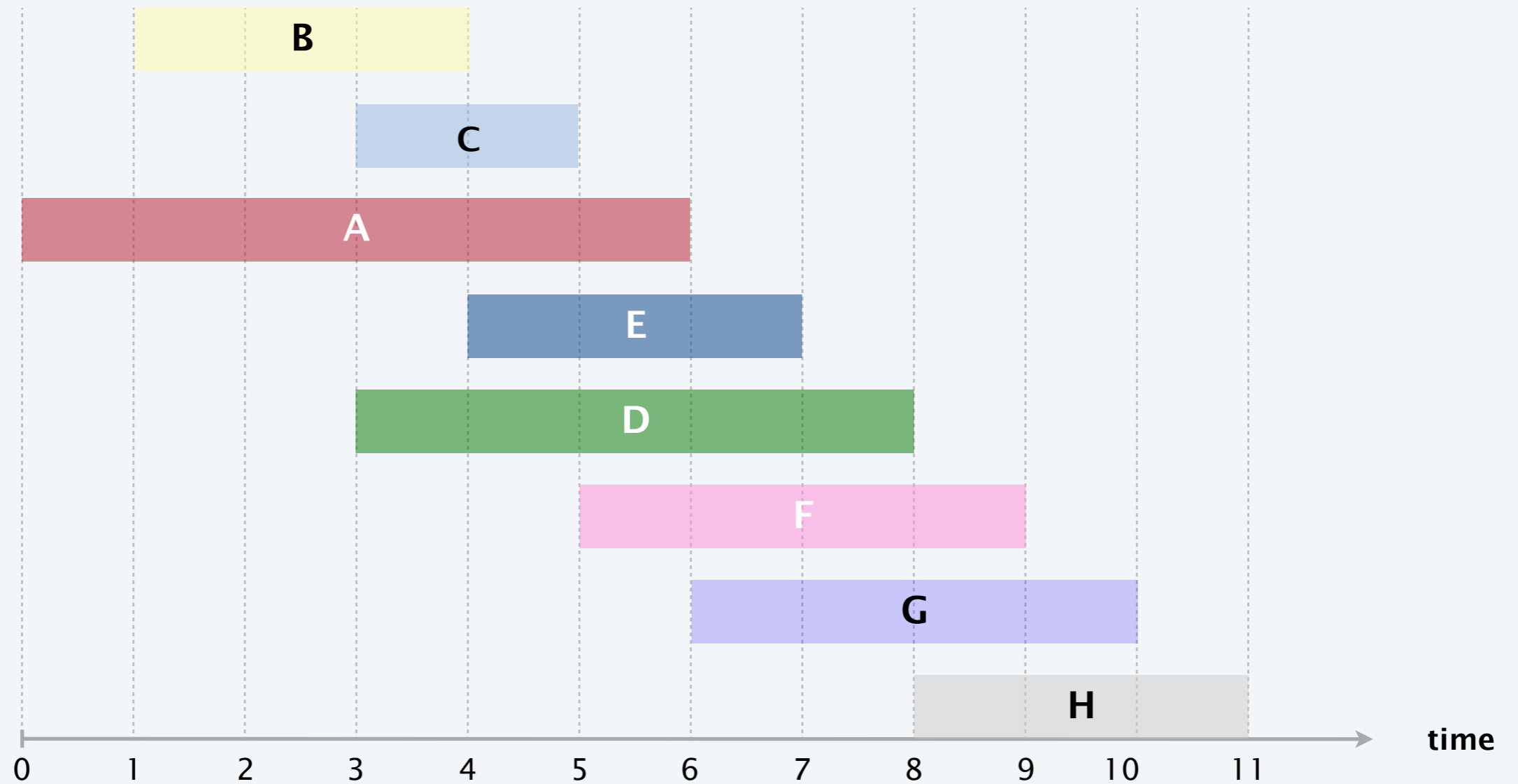
- ▶ *earliest-finish-time-first algorithm demo*

Lecture slides by Kevin Wayne

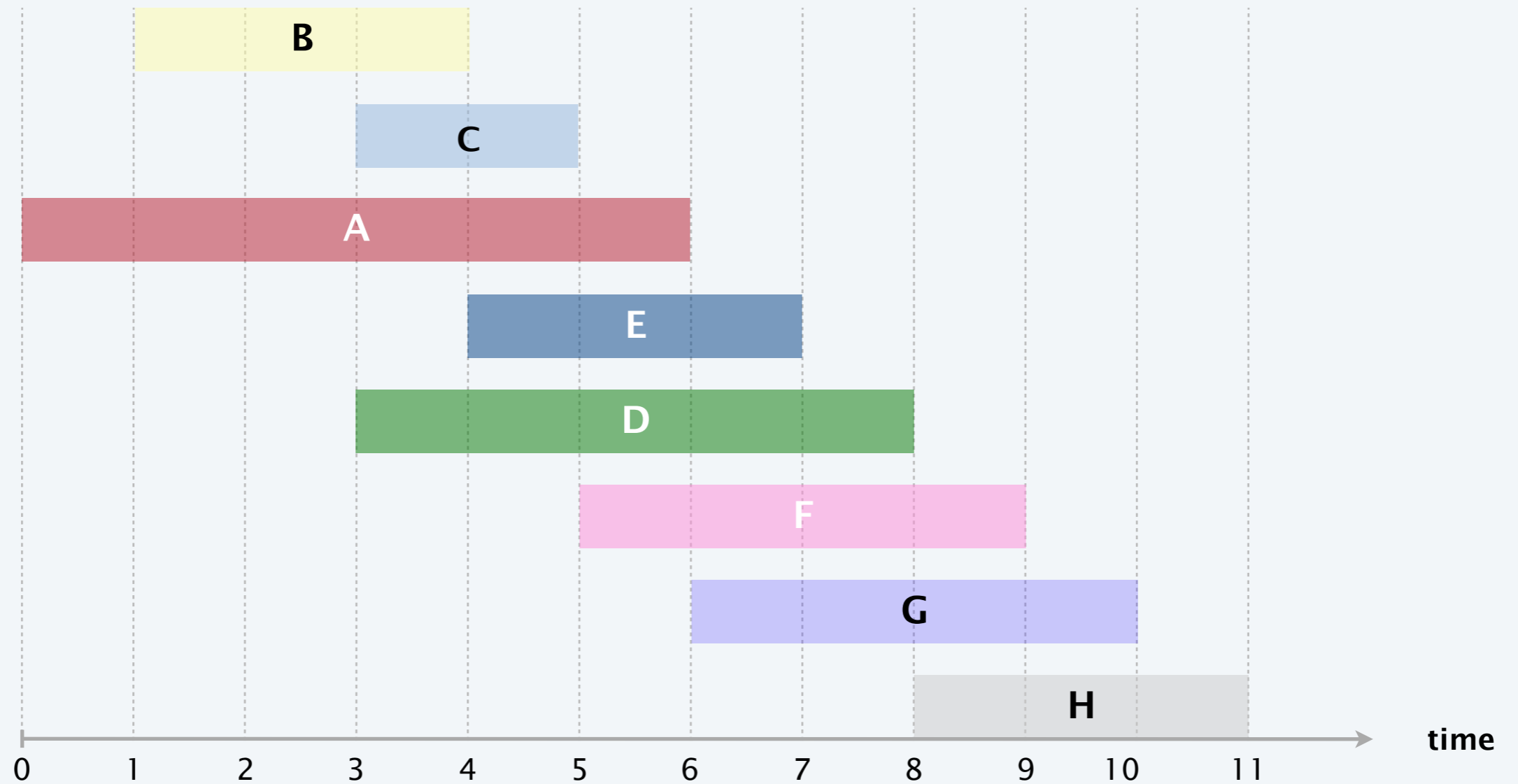
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<http://www.cs.princeton.edu/~wayne/kleinberg-tardos>

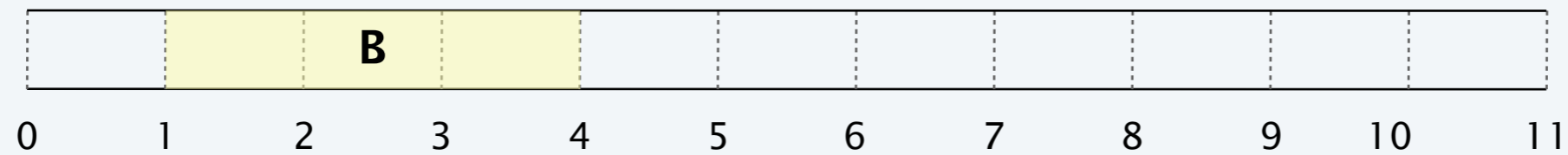
Earliest-finish-time-first algorithm demo



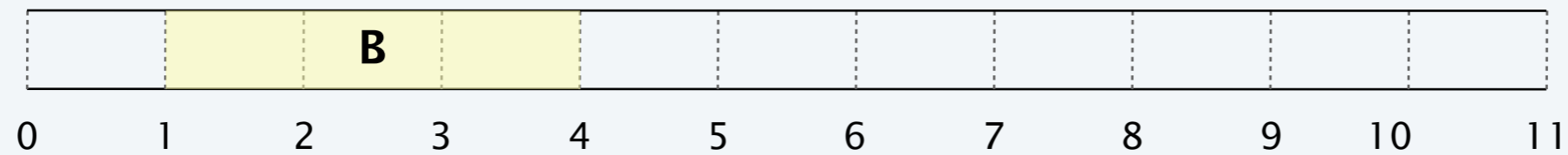
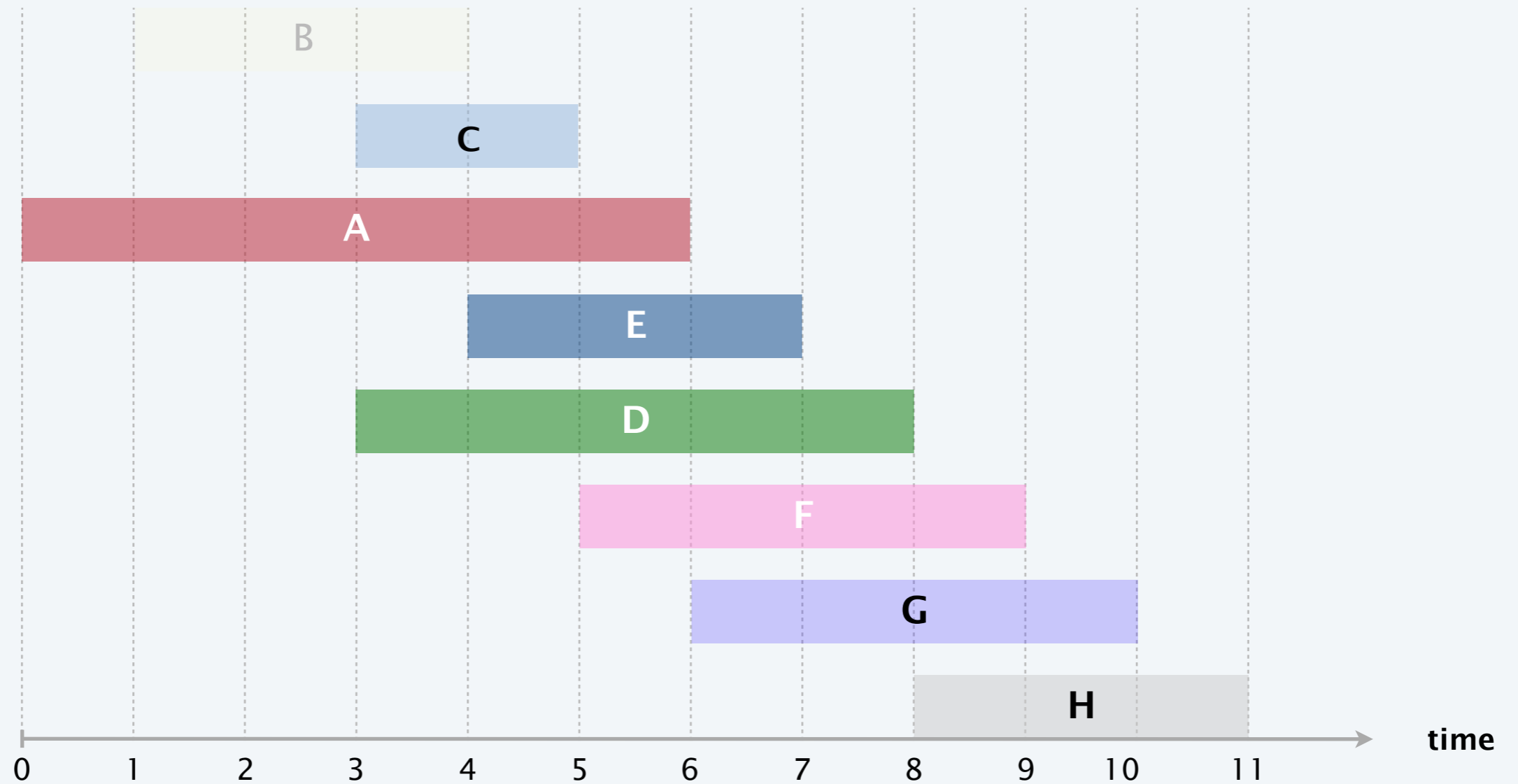
Earliest-finish-time-first algorithm demo



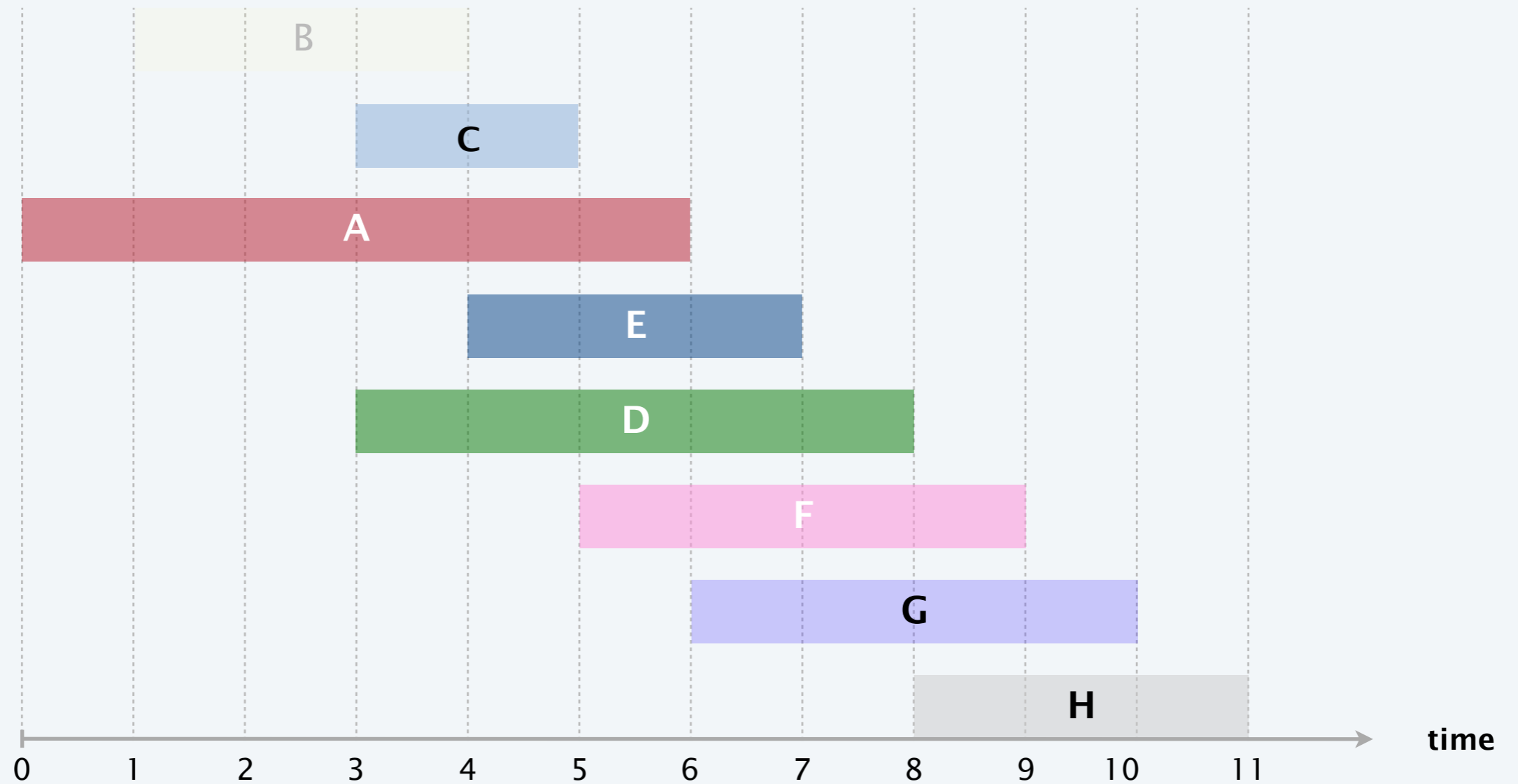
job B is compatible (add to schedule)



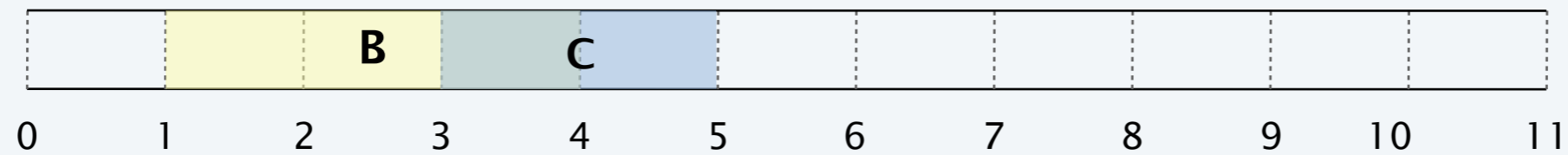
Earliest-finish-time-first algorithm demo



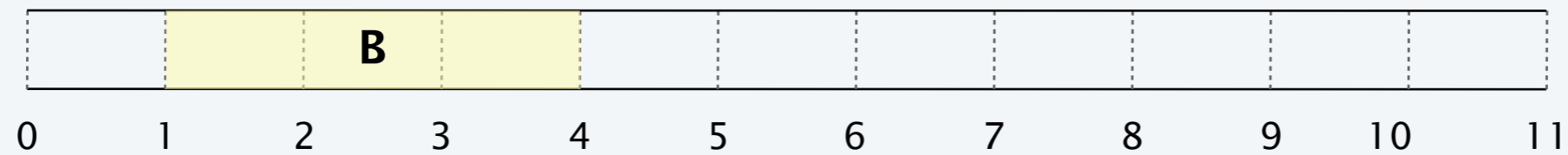
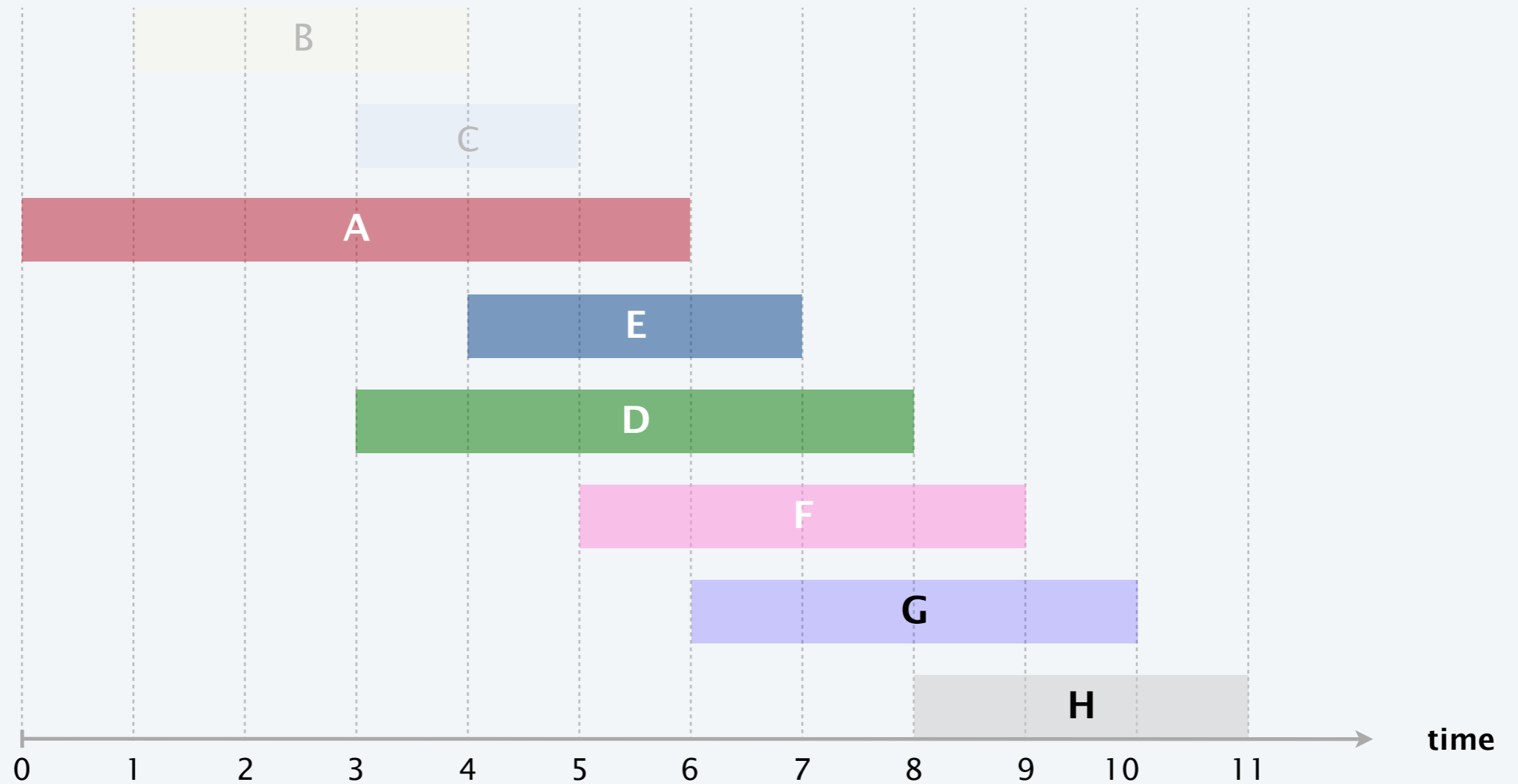
Earliest-finish-time-first algorithm demo



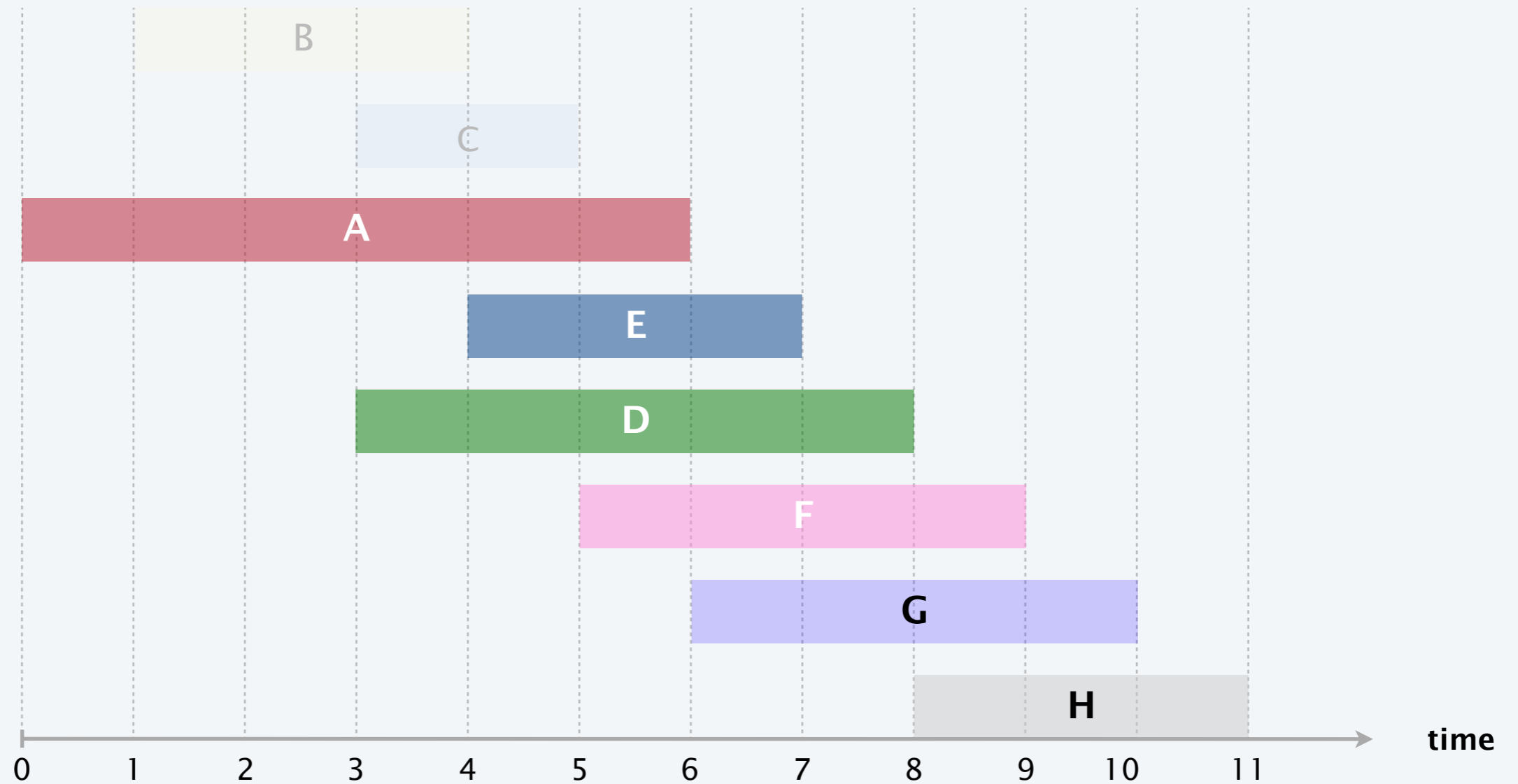
job C is incompatible (do not add to schedule)



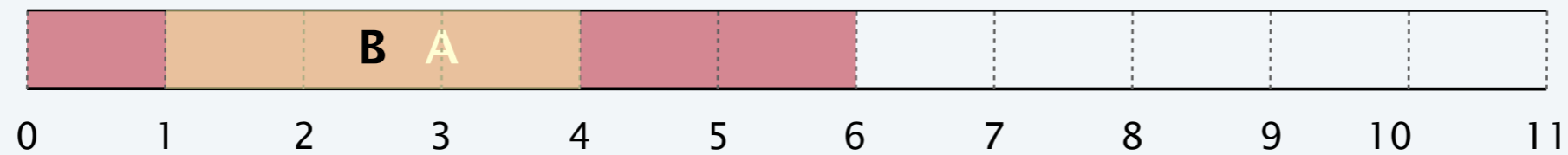
Earliest-finish-time-first algorithm demo



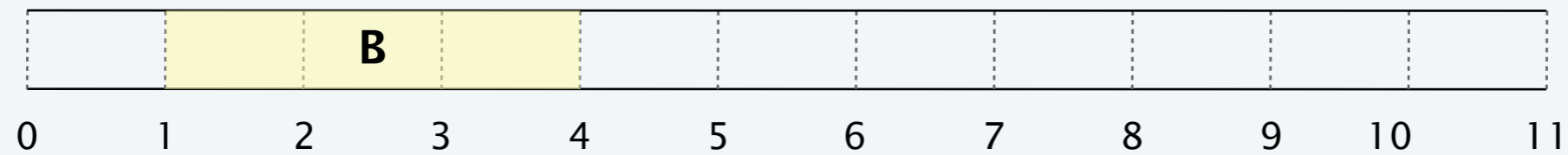
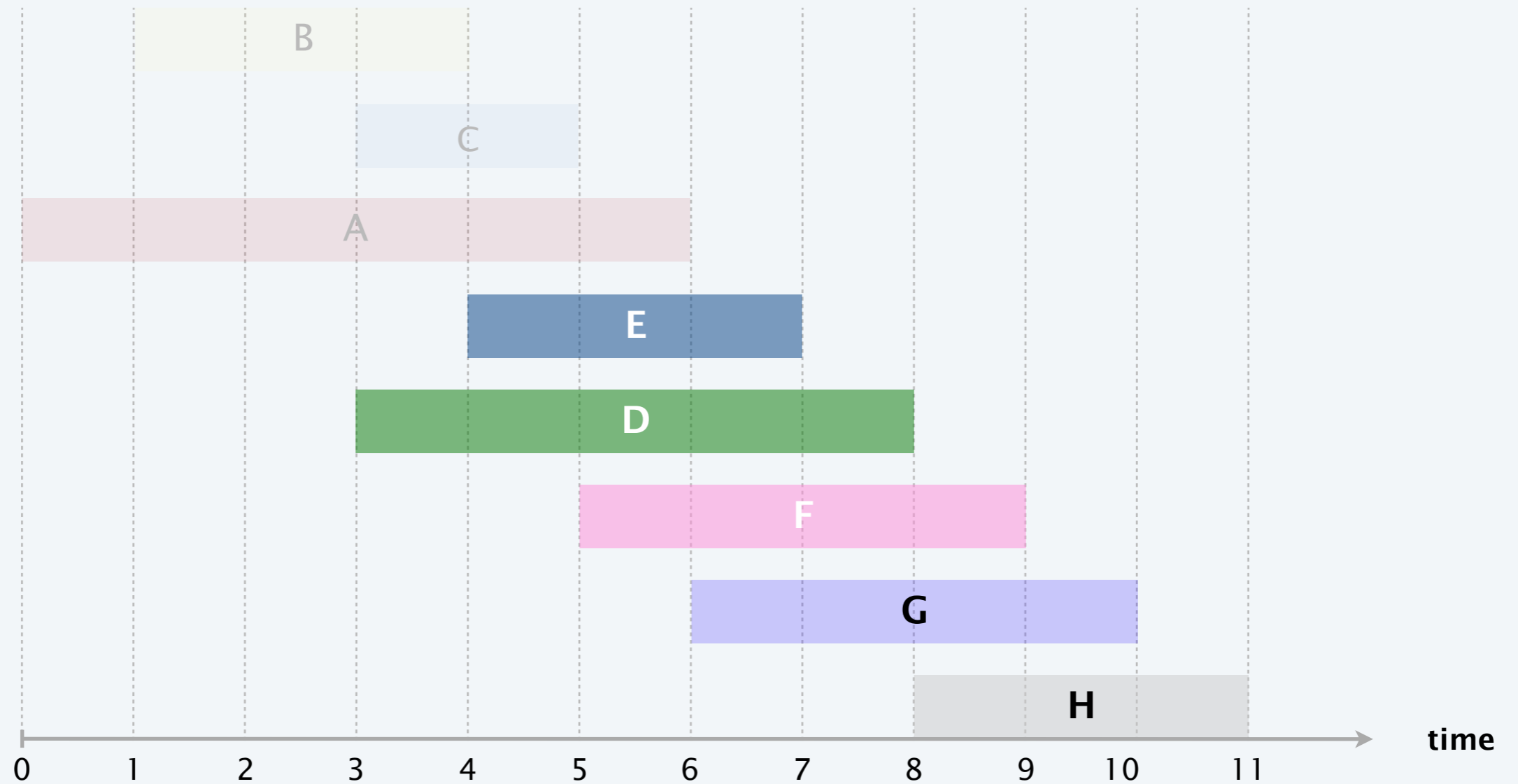
Earliest-finish-time-first algorithm demo



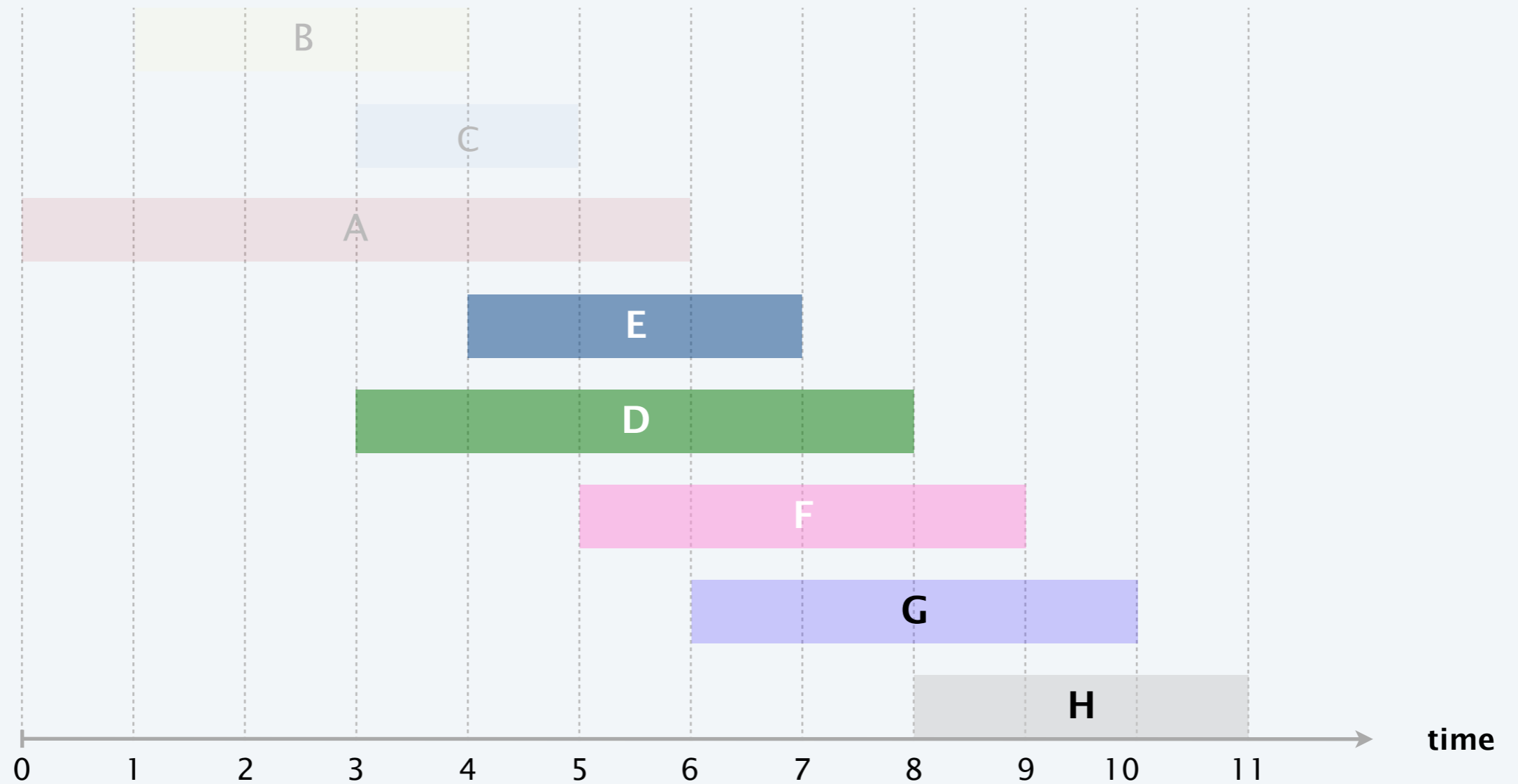
job A is incompatible (do not add to schedule)



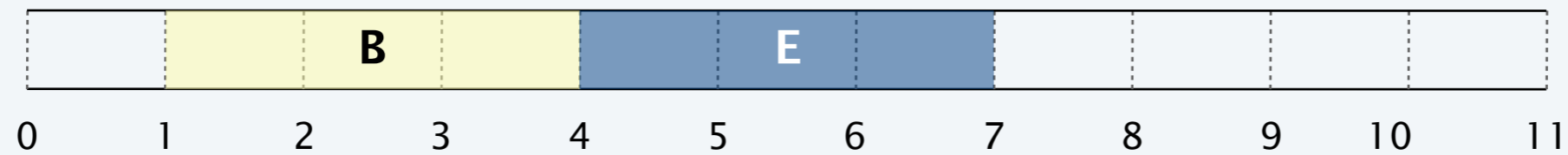
Earliest-finish-time-first algorithm demo



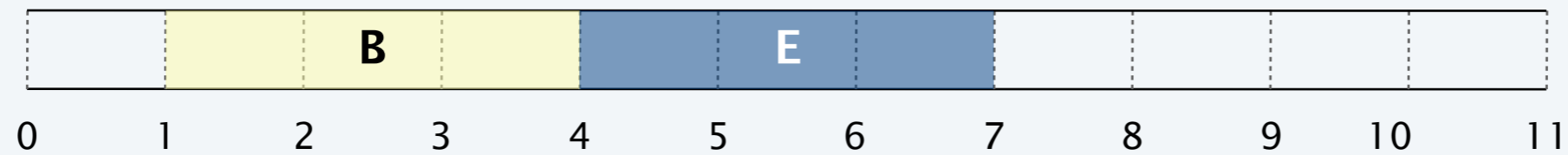
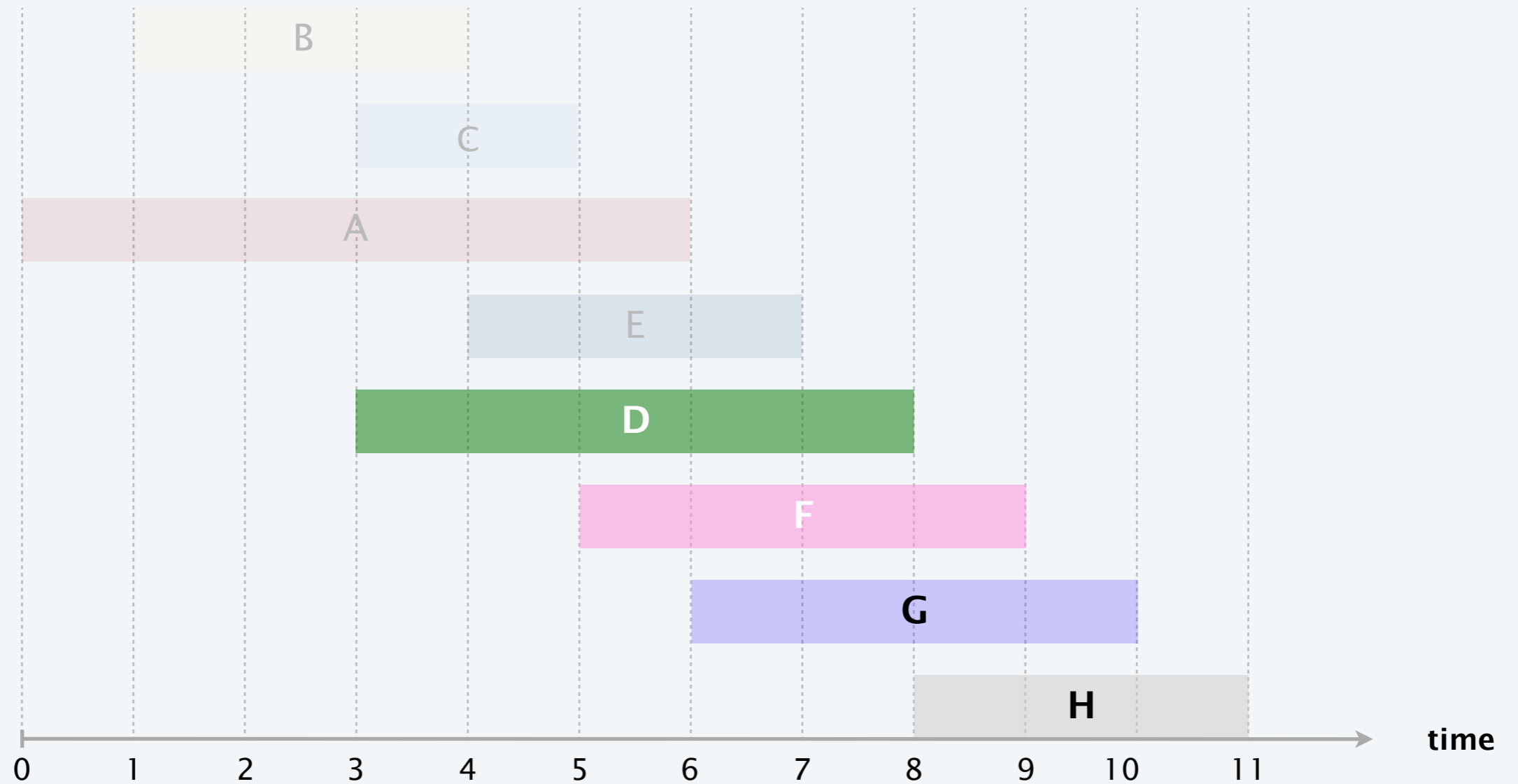
Earliest-finish-time-first algorithm demo



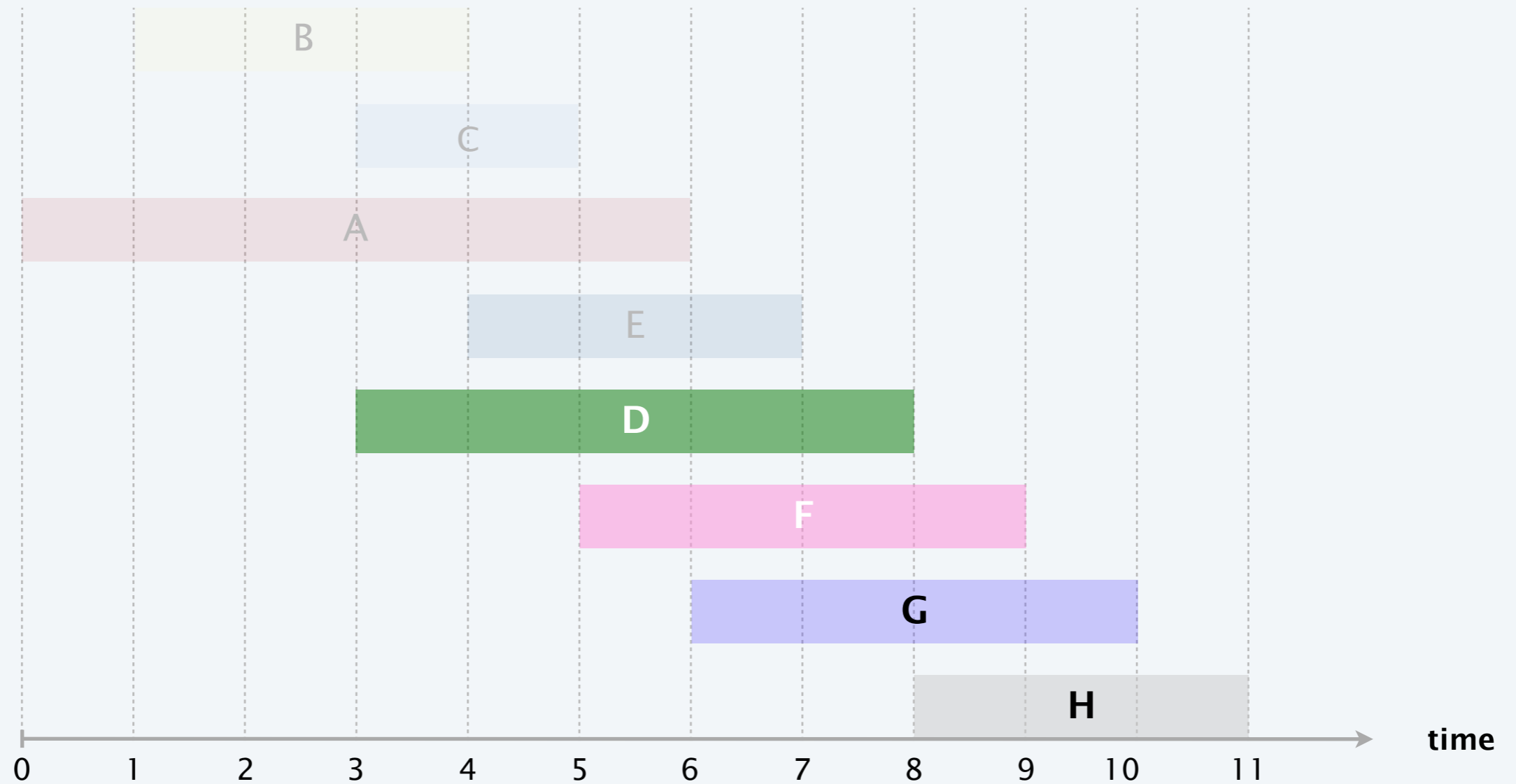
job E is compatible (add to schedule)



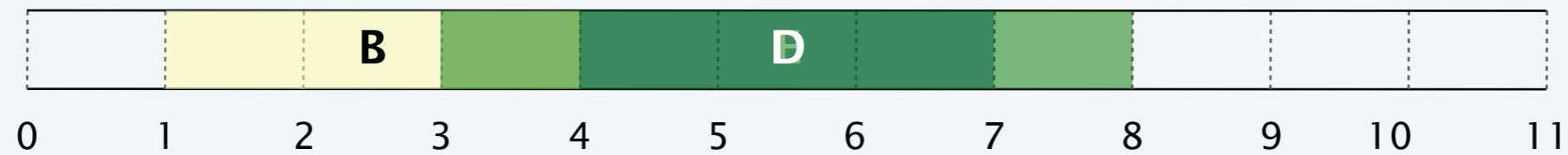
Earliest-finish-time-first algorithm demo



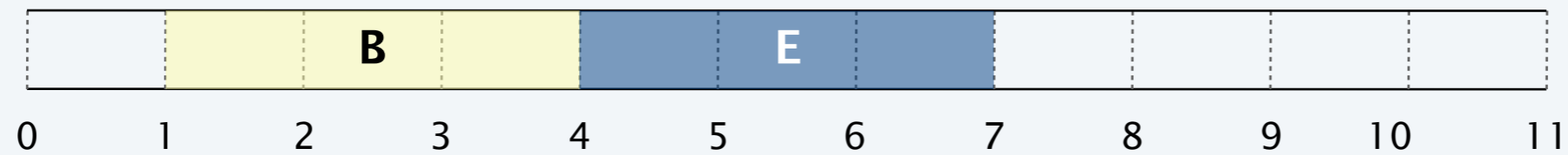
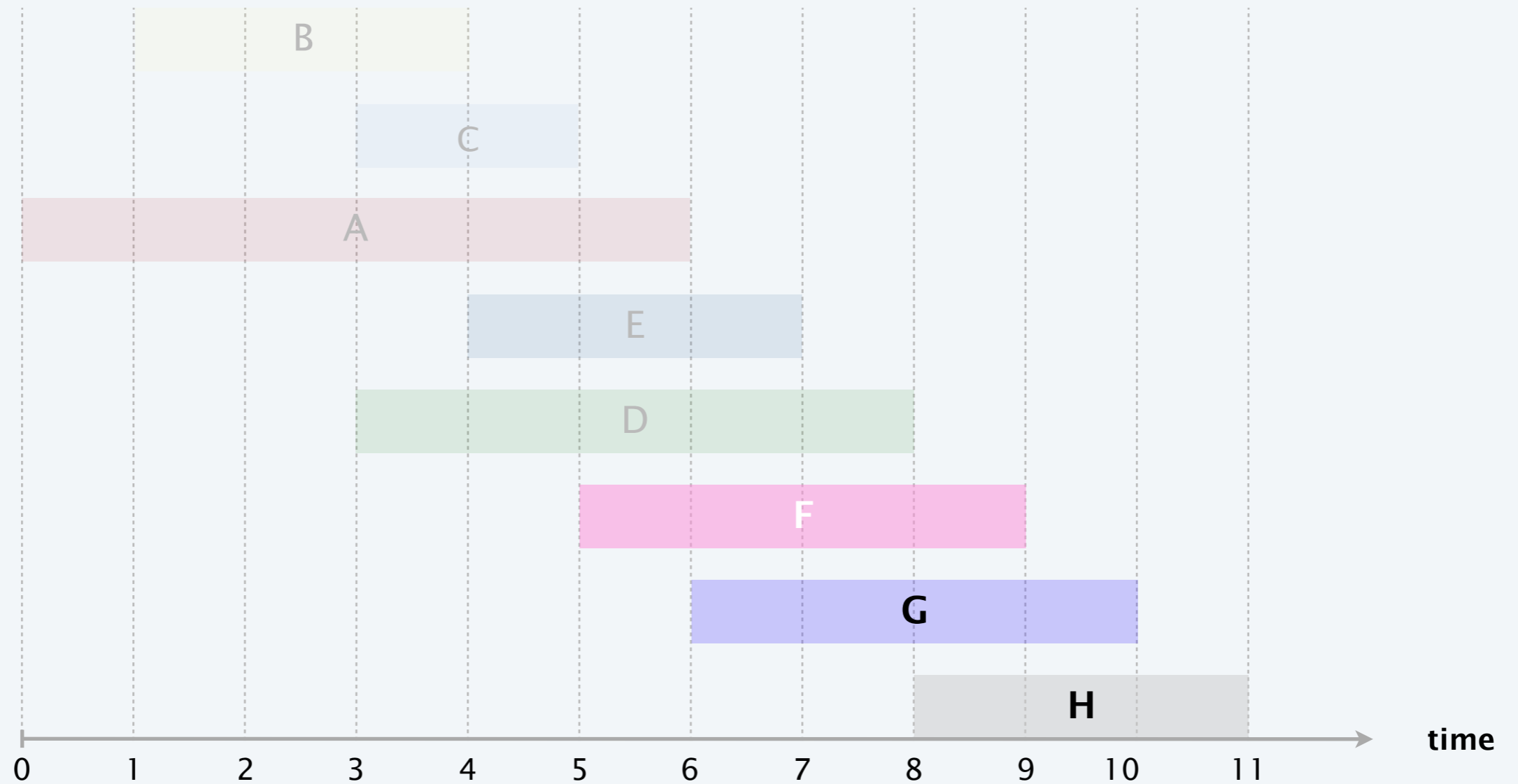
Earliest-finish-time-first algorithm demo



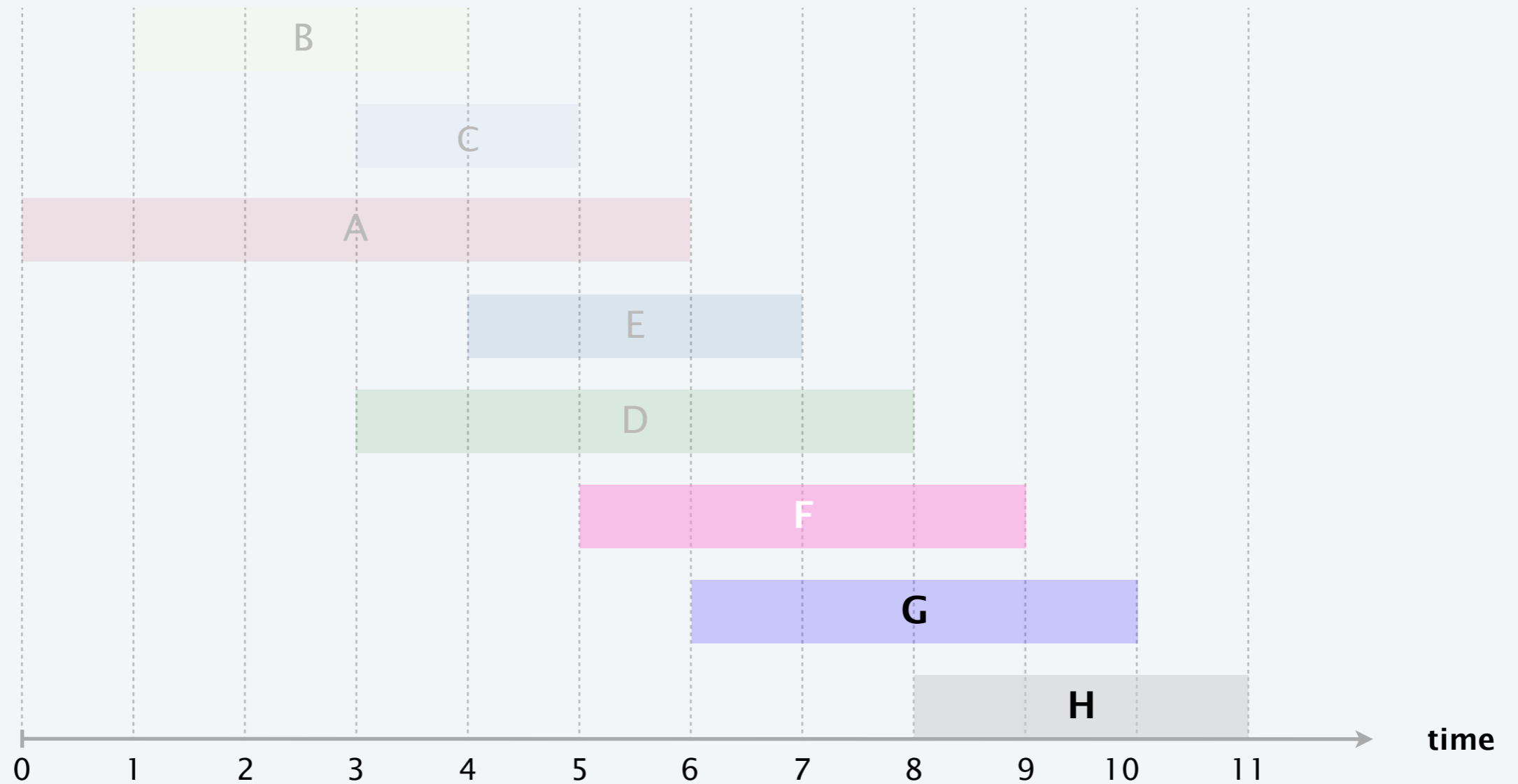
job D is incompatible (do not add to schedule)



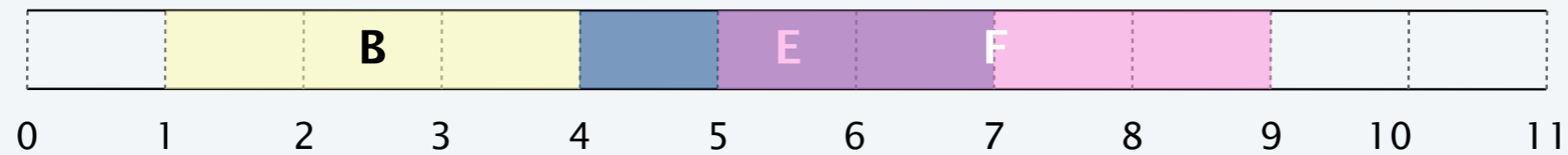
Earliest-finish-time-first algorithm demo



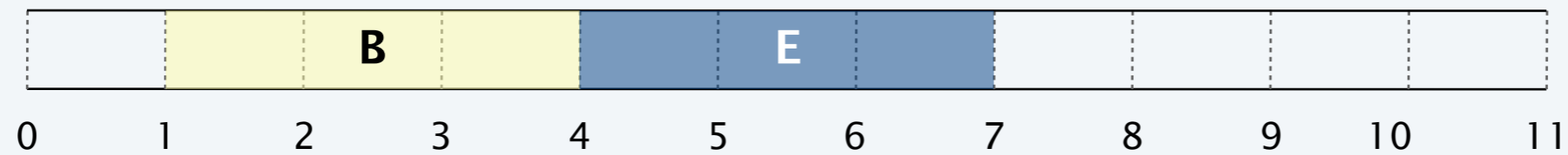
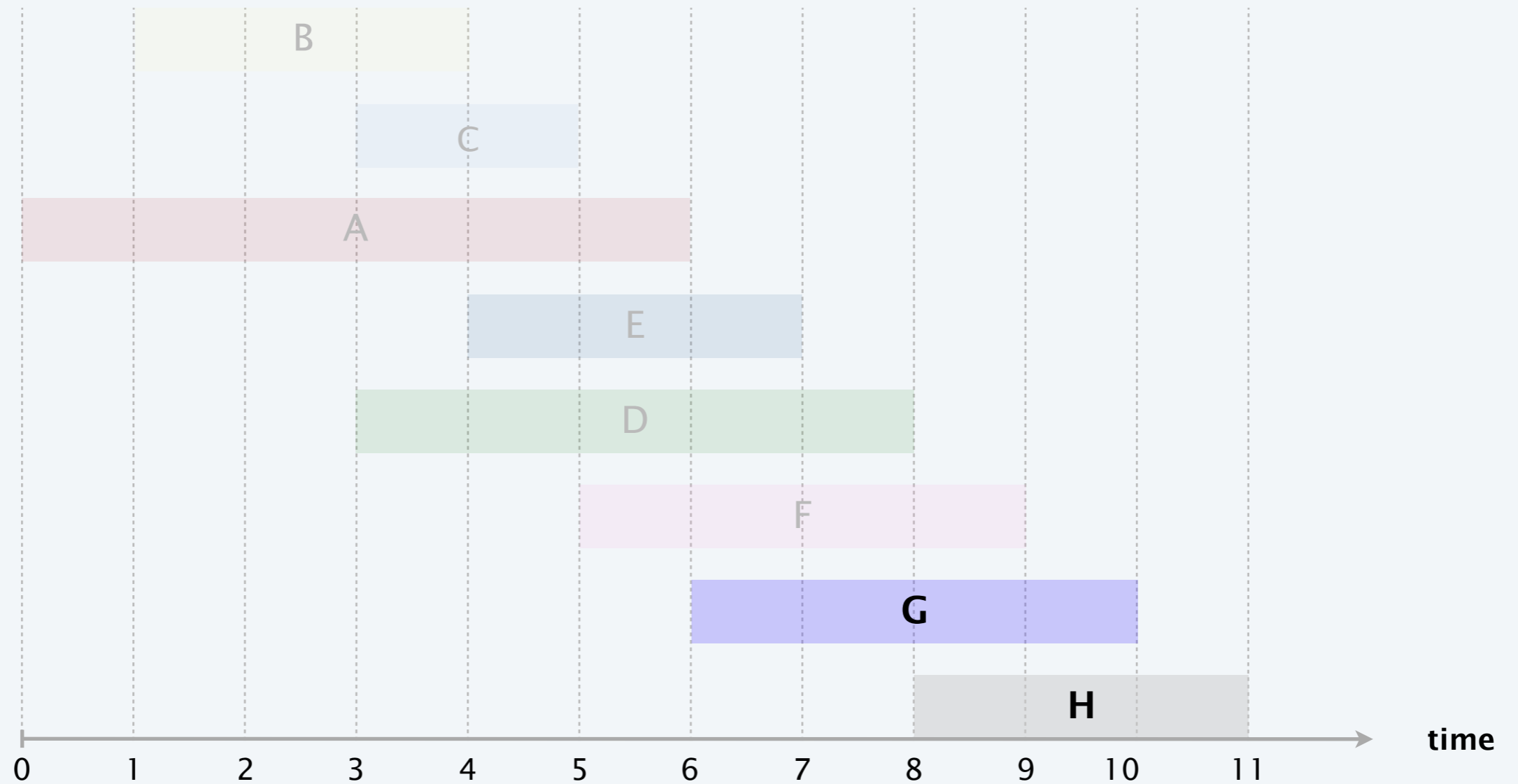
Earliest-finish-time-first algorithm demo



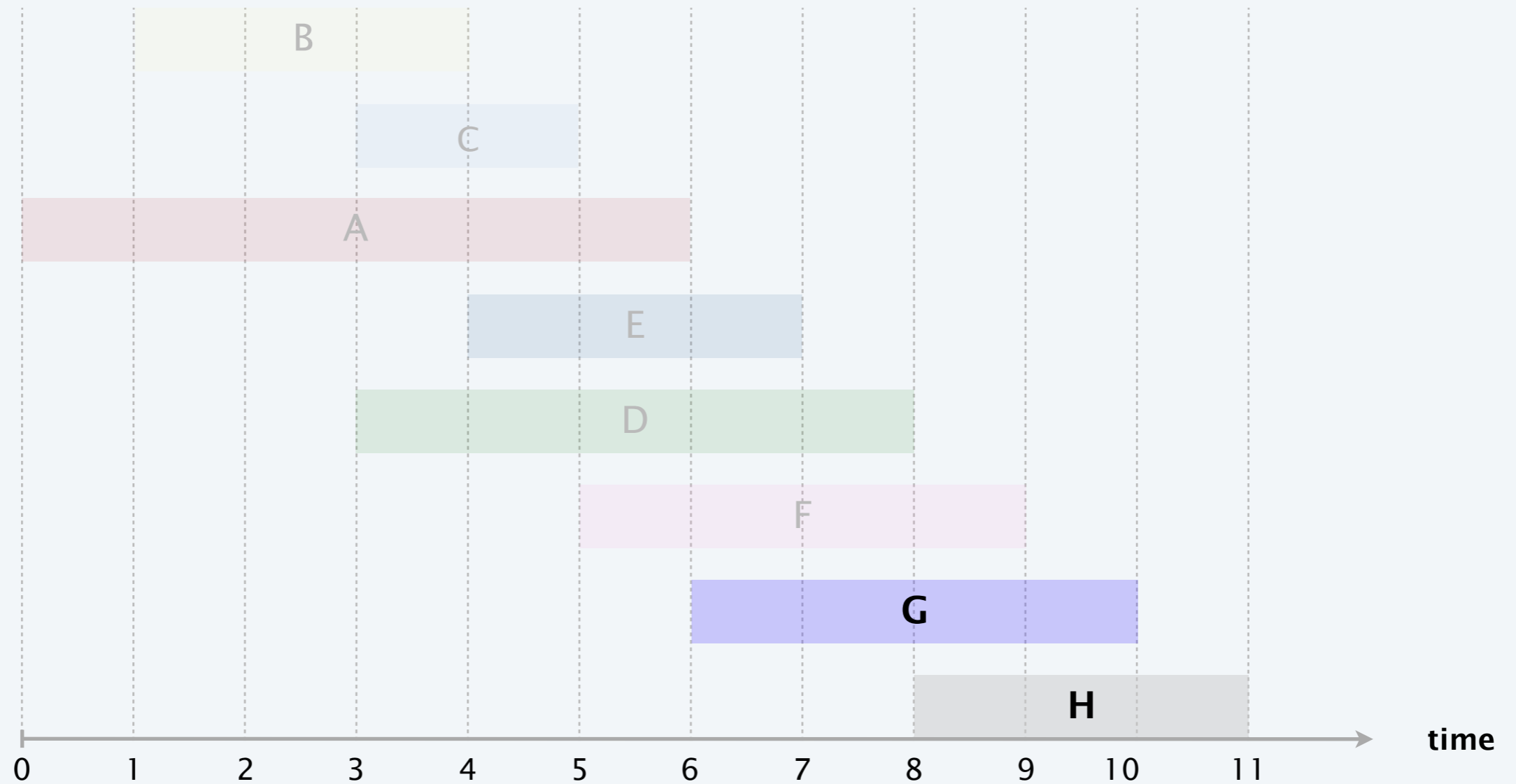
job F is incompatible (do not add to schedule)



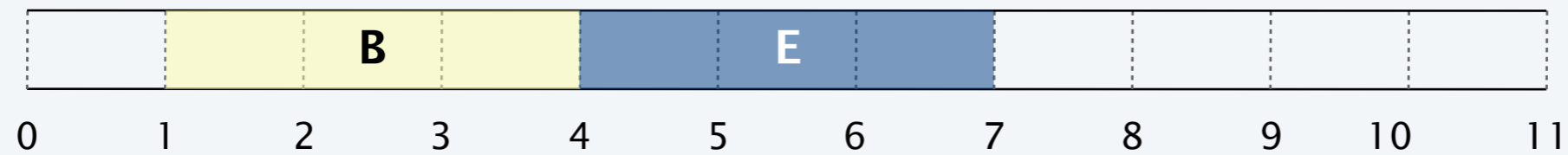
Earliest-finish-time-first algorithm demo



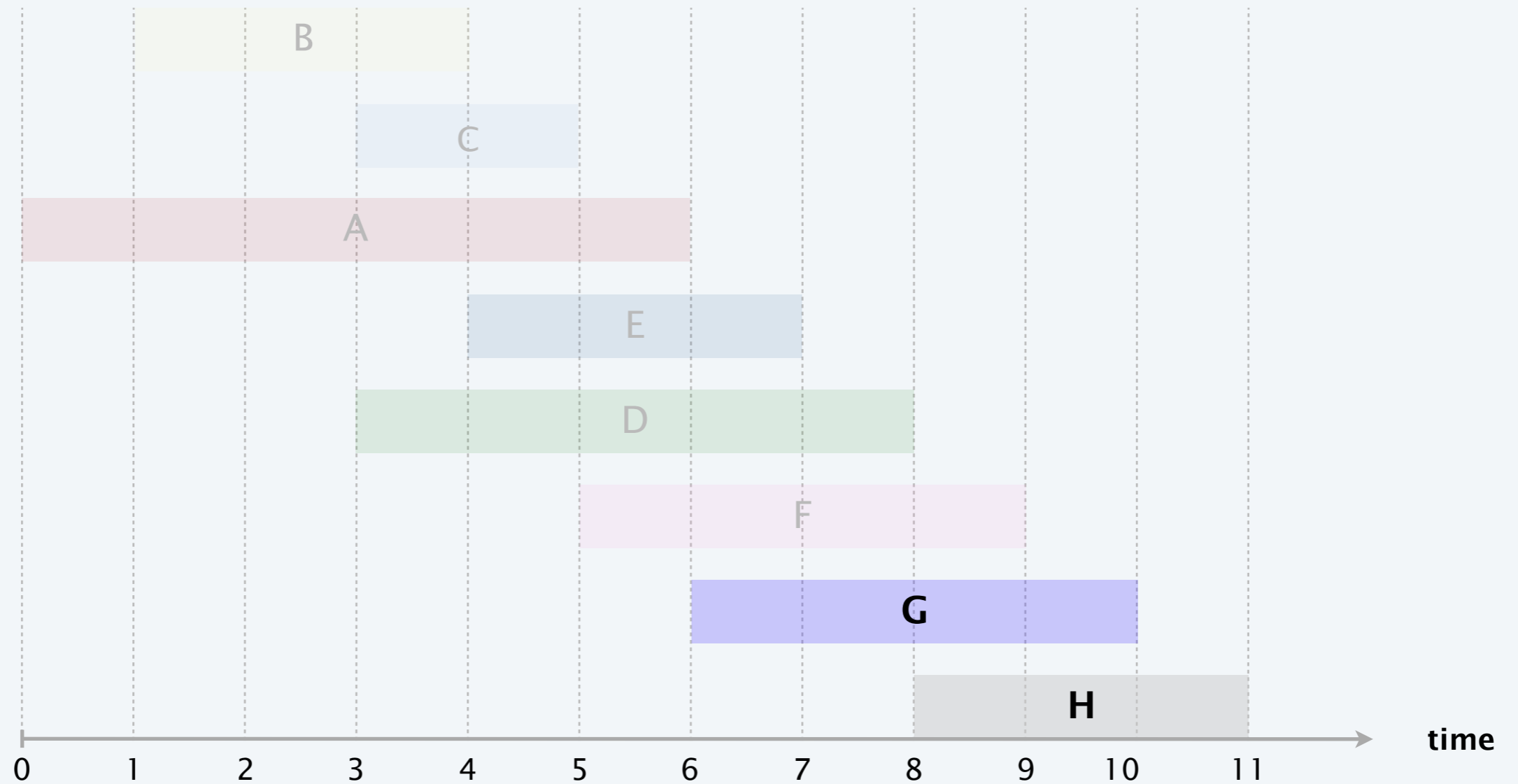
Earliest-finish-time-first algorithm demo



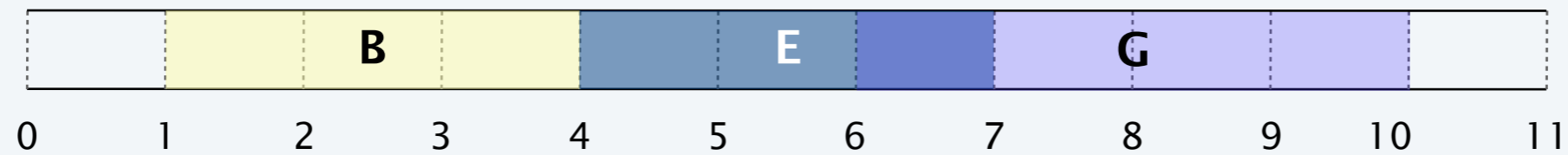
job G is incompatible (do not add to schedule)



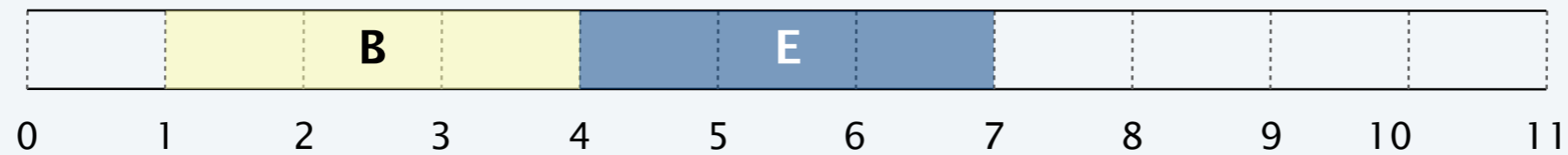
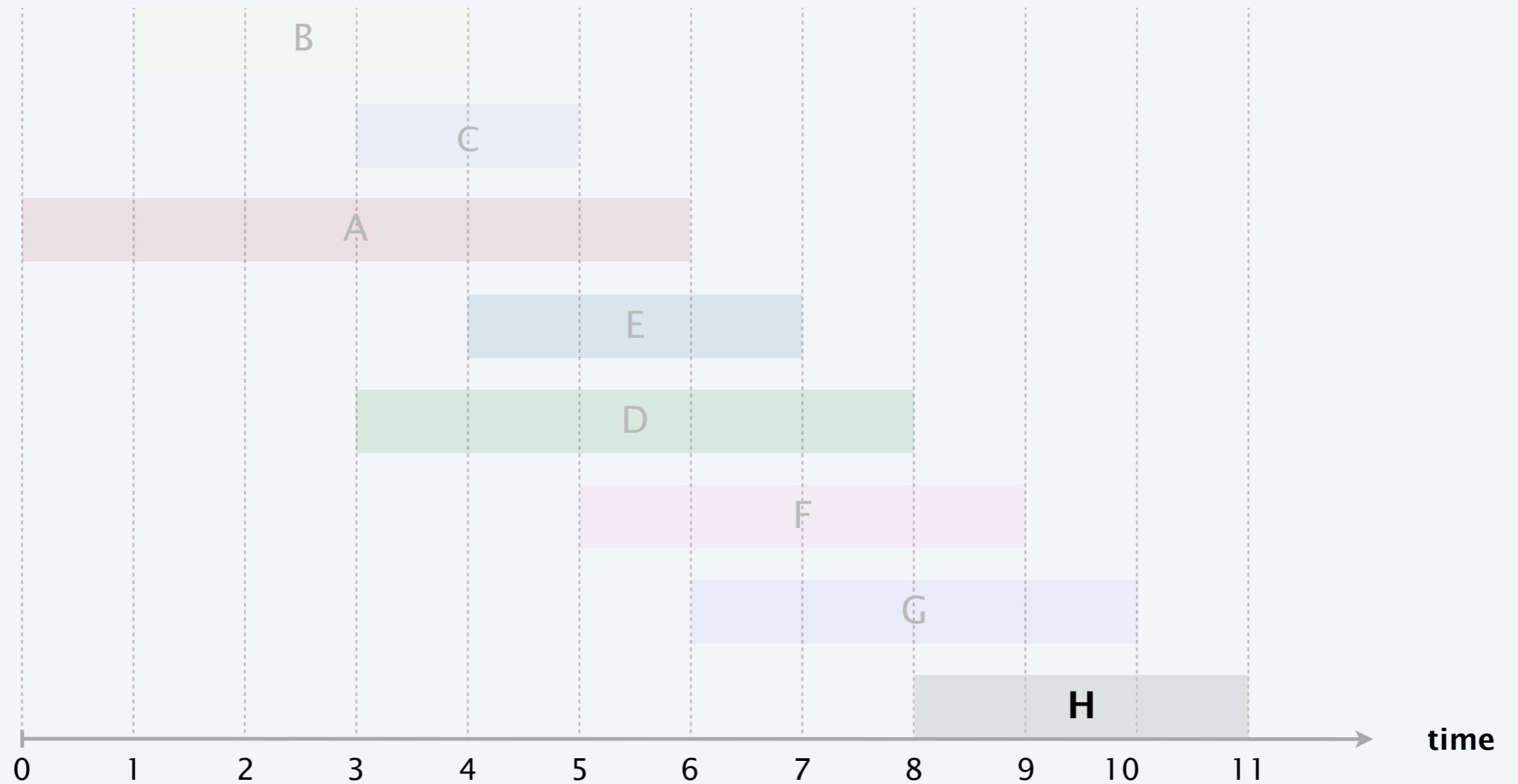
Earliest-finish-time-first algorithm demo



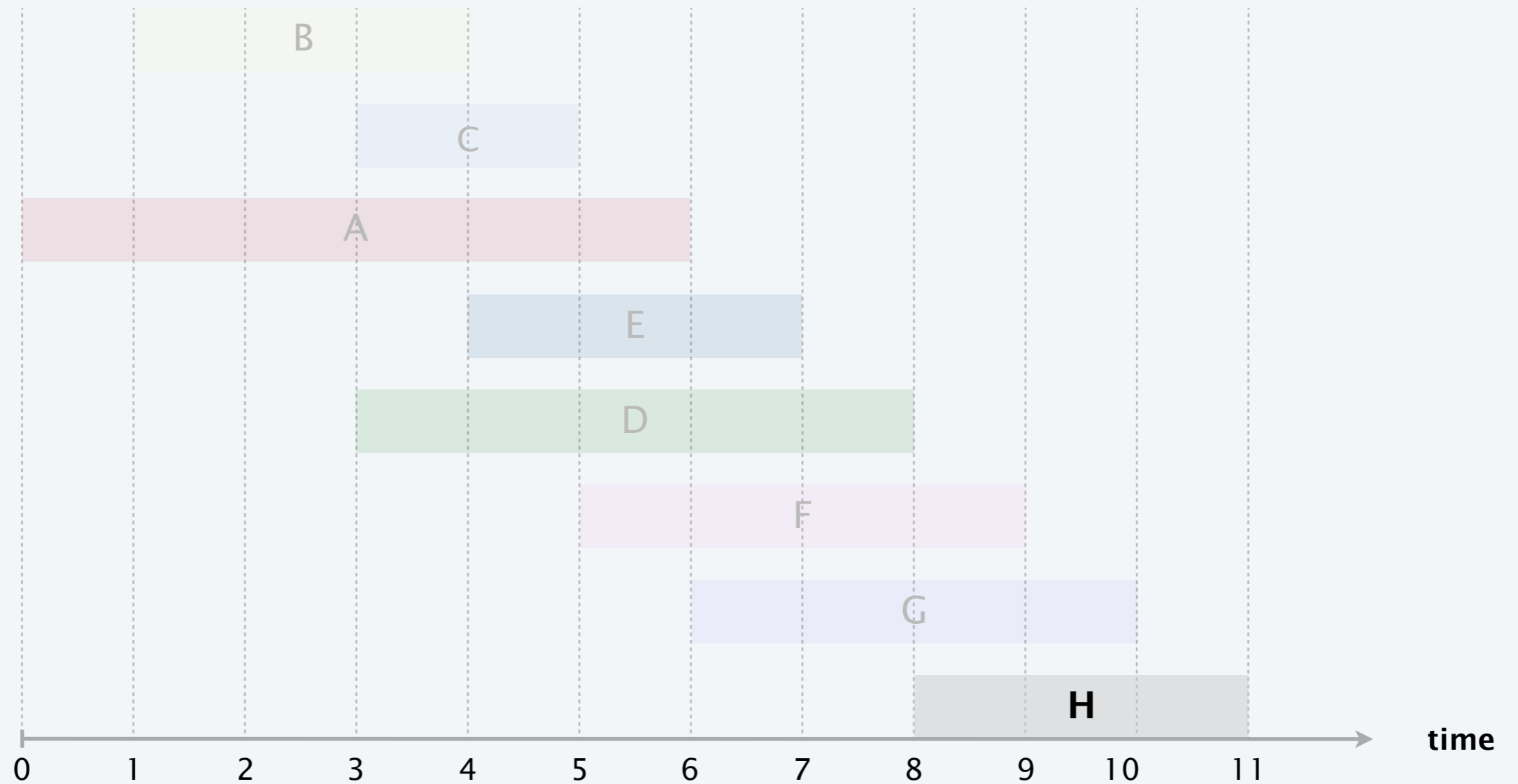
job G is incompatible (do not add to schedule)



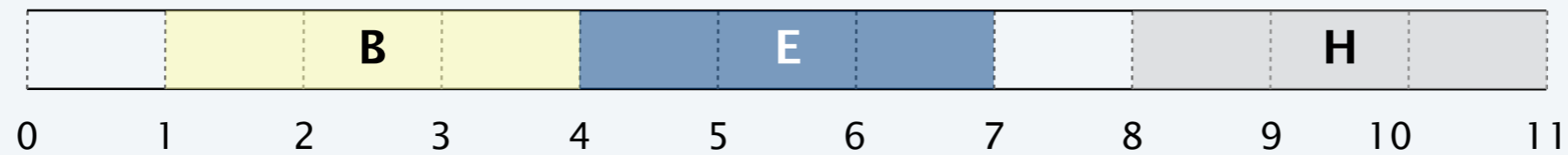
Earliest-finish-time-first algorithm demo



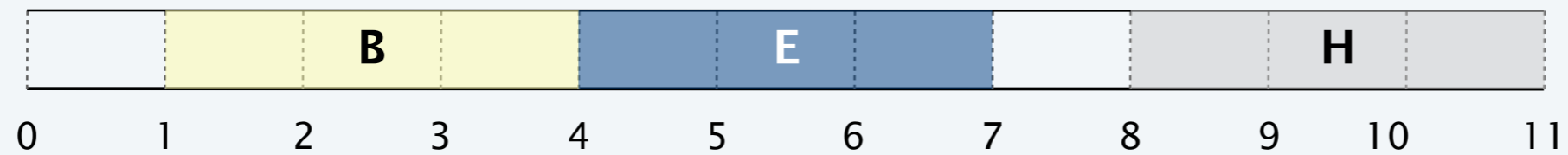
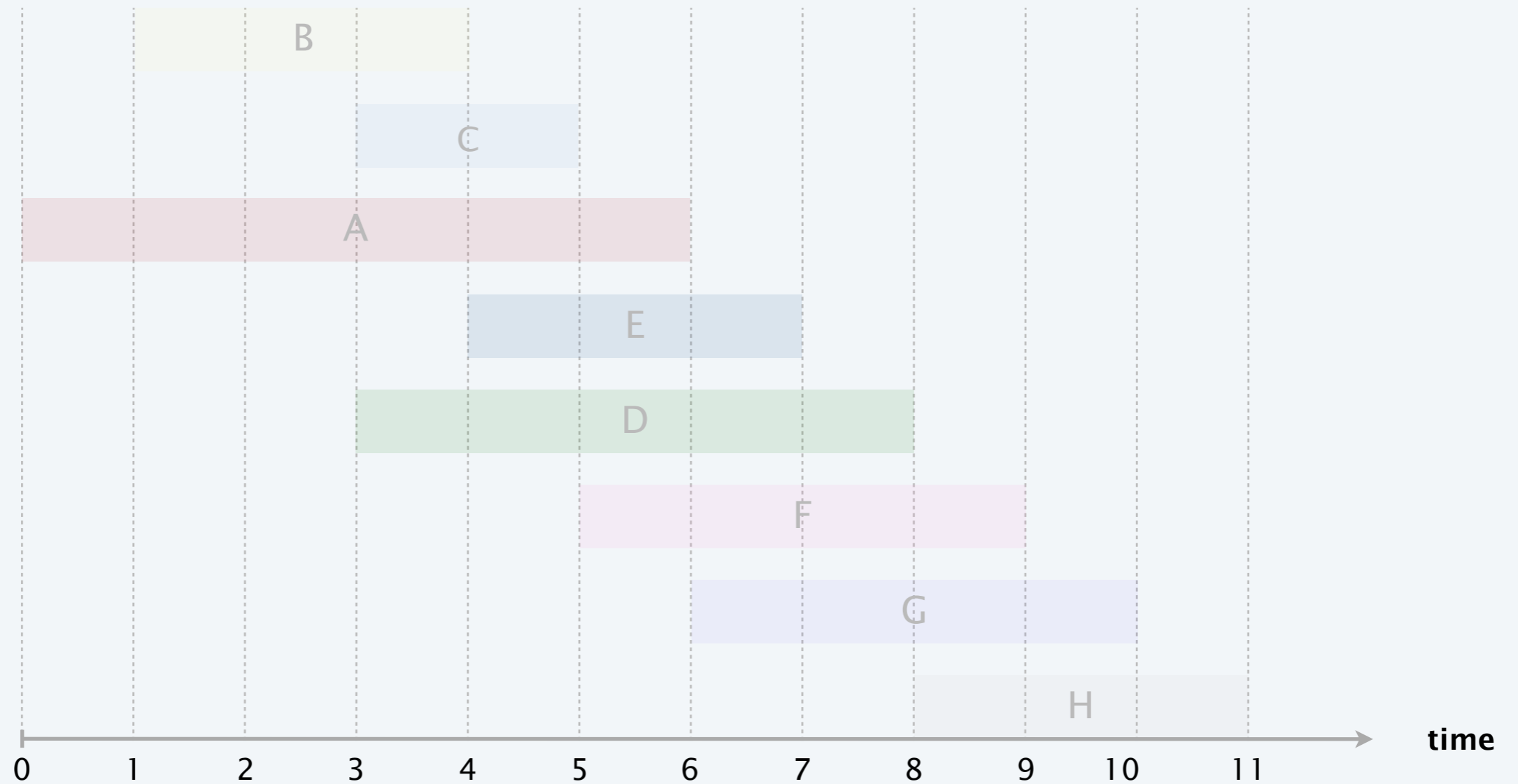
Earliest-finish-time-first algorithm demo



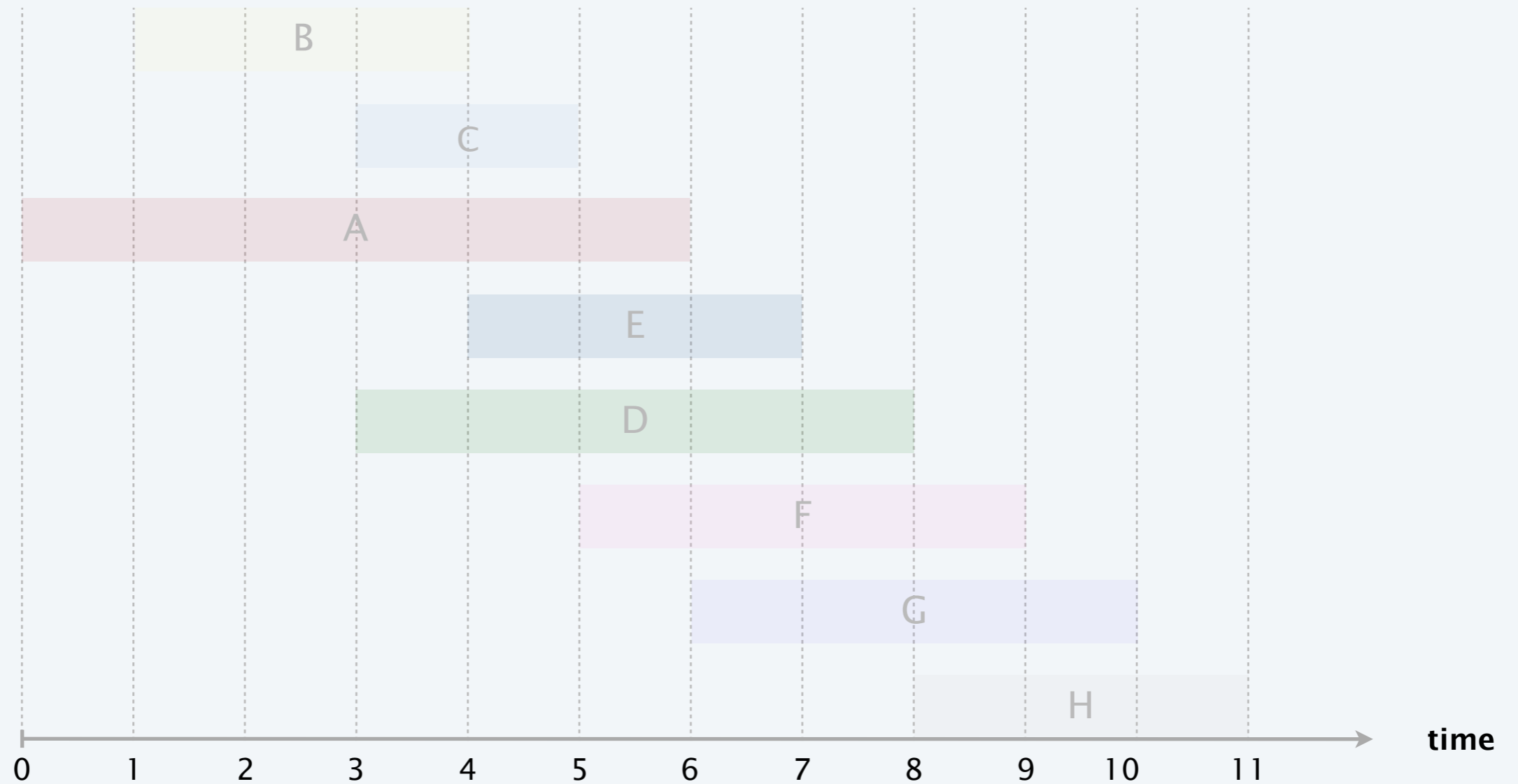
job H is compatible (add to schedule)



Earliest-finish-time-first algorithm demo



Earliest-finish-time-first algorithm demo



done (an optimal set of jobs)

