





Greedy Algorithm

Sort intervals by starting time so that $s_1 \le s_2 \le \dots \le s_n$. $d \leftarrow 0$ #Number of allocated classrooms for j = 1 to n (if (lecture j is compatible with some classroom k) schedule lecture j in classroom k allocate a new classroom d + 1 schedule lecture j in classroom d + 1 $d \leftarrow d + 1$

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based on slides by S. Raskhodnikova, A. Smith, K. Wayne, E. Demaine and C. Leiserson

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