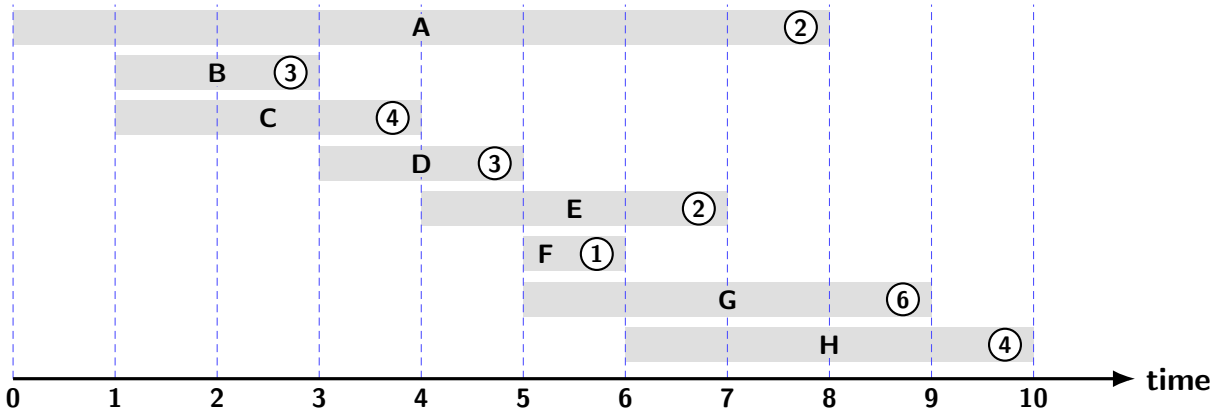
Problem 1 (Try the Algorithm) *You want to create a feasible schedule of classes that has the highest total importance to you, where each class' importance is given in the circle on the right.*

To do so, we define OPT*(t) to mean the value of the best schedule possible that ends by time t. Using this definition, fill in the values of* OPT *in the table below.*



t	0	1	2	3	4	5	6	7	8	9	10
OPT(t)											

Problem 2 (Write the Procedure) *You are given the classes in an array of intervals* $A = [(s_1, e_1, w_1), (s_2, e_2, w_2), ..., (s_n, e_n, w_n)]$ *where* s_i *is the start time of class* i*,* e_i *is the end time of class* i*, and* v_i *is the value of class* i*. Following the ideas given in lecture, write pseudocode for an algorithm that efficiently finds the best course schedule for you. You may assume that no two classes end at the same time.*