Satellite operation scheduling

Optimizing interval combinations

The attached file (intervals.csv) contains a list of 1000 intervals. Each interval is characterized by its start value, its (inclusive) end value, and a cost. All intervals lie within a range from 0 to 100 (including 0 and 100).

Develop an algorithm that finds a combination of non-overlapping intervals which maximizes the number of picked intervals while minimizing the intervals' total cost. Provide some means of control over the relative importance of both optimization conditions.

You may use Python or C++.