

Deadline: week 20-24.05 (on tutorials)

Knapsack – brute force

Implement solution of knapsack problem using brute force method. Generate characteristic vectors and find the maximum total value of items that total weight do not exceed the maximum capacity of a knapsack.

Each student in a group has different file with data. File number is the position of a student in a group on a list in a file with points. First line in a file is the maximum capacity of a knapsack, next lines contains the value and weight of an object that may be packed in a knapsack.

Print the solution: characteristic vector, total value and total weight of items in a knapsack.

Optional: print execution time of your algorithm.