Comprehensive Assignment CSI 2120 Programming Paradigms Winter 2021 Part 4 (Scheme) due on April 14 at 23:00

Emmitt Heisz 300017758

Functions

Function	Description
(knapsack maxwt	This function is called to solve the knapsack problem given a
itemL)	knapsacks maxwt and a list of items itemL
(append-list L1 L2)	This function appends together 2 lists L1 and L2
(max k1 k2)	This function returns the knapsack with the largest value
(add k i)	This functions adds item I to knapsack k
(returnlarger maxwt	This function is used as the else case in the knapsack function. It
itemL)	returns the larger of 2 knapsacks one which includes the next item in
	the list and one which does not include it.
(solveknapsack name)	This function given a file name name, will read parameters from the
	file and call knapsack to solve the knapsack problem.
(define (getitems n i)	Gets and returns a list of n items from the file i.

Solve p1 Example Result.

```
Welcome to <u>DrRacket</u>, version 8.0 [cs].
Language: racket, with debugging; memory limit: 128 MB.
> (solveknapsack "pl.txt")
'(21 (D . B))
>
```