Marathon

22nd June 2016 Advance Problem

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Marathon

- Mr. Choi has to do a marathon of D distance. He can run at 5 different paces, each pace will have its time consumed per km and its energy consumption.

- Mr. Choi can only run till he had energy left.

- Find the minimum time required for choi to complete marathon if he has H energy.

Sotong

Approaches

- Using For loop to calculate all combination
- Using recursion with Pruning to find all combinations
- Using Recursion with for and While loops to find all combinations
- Using DP to find the solution (more programming required in this approach)
- Using recursion with memorization
- Please find attached solutions for first 4 approaches

22_June_Solutions(1-2-3).cpp

DpSolution.cpp

22_june_Input.txt

Errors/Bugs

- Calculating all permutations instead of combinations (In recursion)
- Not returning at the base conditions