

Given a relaxed version of the problem where:

- each book can be scanned multiple times but only once by each library

for points,

- multiple libraries can be registered at once

Evaluation for j-th library:

$$E_j = \min\left(\frac{\sum_{i=0}^{N_j} S_i}{N_j} \cdot M_j \cdot (D - T_j), \sum_{i=0}^{N_j} S_i\right)$$

The average score of books is multiplied by the number of books that can be scanned each day, giving us theoretical speed of library in points / day. This speed is then multiplied by the number of days the library can theoretically operate. This gives us the number of points each library will produce in the relaxed scenario.