Problem A2

Min Partition

Time limit: 0.095s
Memory limit: 512 MB

While A1 has $1 \leq N \leq 300$, A2 has $1 \leq N \leq 2100$, i.e. 7x larger... and also 21x less runtime allowance (the remaining constraints are the same).

Tips: Solve A1 first (13 marks) --- The reflection questions make up the last 7 marks.
If you get Accepted at A1, you can take a look at your solution's runtime at cs3233.com server.
If this runtime is bigger than ~0.005s, it is very unlikely that the same solution can pass A2 constraints.
PS: The reference solution is in C++ and it runs in 0.04s for the secret test cases in this server (and with crazy tight constraints like this, Steven is not sure if Java or PyPy3 can pass).

This A2 version only worth bonus 1 challenge mark *for the first 21 Accepted solutions, or top 5% of the cohort* and can be very frustrating (usually TLE but can be other issues e.g., MLE, etc) for many students as it requires solution "outside this CS3230 module" (ADS: Take Steven's CS3233 and/or CS4234), so decide yourself whether this is worth fighting for, especially if you are no 22 or beyond.

List of first 21 accepted solutions (no longer checked after Wed 22 Mar 2023, 10.34pm):

1. T16_A0255829N
2. T16_A0249418W
3. T07-A0236560H
4. CheeHeng not counted, T14_A0240634M
5. T18_A0245772X
   ======= Day 2 =======
6. T04_A0238961U
7. T02_A0239448R
8. T13_A0236449W
9. T13_A0230055W
10. T11_A0200875H
    ======= Day 3 =======

CS3230 PA3 (17-31 Mar 2023)

Contest over!

Problems

A1 ✓
A2
B1 ✓
B2 ✓

Standings

Submissions

Submit

C++
Choose file No file chosen
Submit

11. T12_A0235178Y
12. T16_A0214444M
13. T17_A0268075W
    ======= Day 4 =======
14. AudreyFelicioAnwar not counted, T01_A0214588W
15. Jikun not counted, T17_A0230330A
    ======= Day 5 =======
16. T13_A0236430N
17. WeiSeng not counted, T02_A0234962Y
    ======= Day 6 =======
18. KokRui not counted, T16_A0223519H
19. T05-A0244215N
20. T03_A0268689Y
21. T01_A0233594Y
    Sorry, T16_A0234582A is the first one outside first 21

Steven will no longer manually check future submissions to A2 and no more bonus challenge point will be given.
For the 21 students listed, do consider taking CS3233 and/or CS4234 in the future :).