Example on the Aproximation Algorithm

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Test Case

Some students thought that multiplying the tardiness of the approximated instance with K, results in the tardiness of the original instance. However, we have created an instance for which it is clear that this is not the case. The students are requested to check the correctness themselves.

p_j	d_j
63	264
44	222
77	279
12	302
97	253

Optimal Tardiness $T = 2$. Scaling with $\epsilon = 10$.

Then resulting scaled tardiness $T' = 0$, thus $T' \cdot K \neq T$.