Problem Link:

<https://leetcode.com/problems/find-the-minimum-amount-of-time-to-brew-potions/description/?envType=daily-question&envId=2025-10-09>

Solution:

class Solution {

public:

long long minTime(vector<int>& skill, vector<int>& mana) {

long s = accumulate(skill.begin(), skill.end(), 0L);

long w = s \* mana[0];

for(int j = 1; j < mana.size(); ++j)

{

long p = w;

for(int i = skill.size() - 2; i >= 0; --i)

{

p -= static\_cast<long>(skill[i + 1]) \* mana[j - 1];

w =

max(p, w - static\_cast<long>(skill[i]) \* mana[j]);

}

w += s \* mana[j];

}

return w;

}

};