**Task Queue**

Task queues, which allow for asynchronous performance, an important part of modern processing architectures. Information system consisting of several batch processing queues is given.

Each queue has three parameters

1. the maximum number process in a single

2. the time it takes to process batch of tasks in that queue

3. the number of tasks the queue must process

Given this information, calculate the minimum time needed to process a set of tasks by the system.

**Function Description:**

Complete the function minTime()

minTime has the following parameter(s):

int batchSize[n]: each batchSize[i] denotes the maximum number of tasks the h queue can process in a batch

int processing Time[n]; each processing Time[i] denotes the time it takes to process a single batch in the i-th queue must process.

**Returns:**

int : the minimum time to process all of the tasks

**Constraints:**

1<=n<= 10^5

1<=batchSize[i]<= 10^9

1<=processingTime[i]<= 10^5

1<=numTasks[i]<= 10^9

**Example**

n=2

batchSize = [4, 3]

processingTime [6, 5]

numTasks= [8, 8]

Queue 0 can process a maximum of 4 tasks in 6 minutes, and queue 1 can process a maximum of 3 tasks in 5 minutes. Each queue has 8 tasks to process. The time required to perform the assigned tasks in the minimum possible time is calculated as follows:

**For queue 0:**

• At time = 0, a new batch of 4 tasks is initiated.

• At time = 6, the first batch of tasks is processed and a new batch of 4 tasks is initiated.

• At time = 12, the second batch of tasks is processed. There are no more tasks left to process in this queue.

**For queue 1:**

• At time = 0, a new batch of 3 tasks is initiated.

• At time =5, the first batch of tasks is processed and a new batch of 3 tasks is initiated.

• At time = 10, the second batch of tasks 15 is processed and a new batch of 2 tasks is initiated.

• At time = 15, the third batch of tasks is processed. There are no more tasks

left to process in this queue.

The minimum time to process all the tasks is 15.