Problem

Email Service Providers like Gmail, Outlook, Yahoo etc rate limit the senders if the same inboxes are used to send too many emails.

Design & implement a frequency based load balancer for an email sending platform:

There are N email inboxes, we are only allowed to send up-to X emails every Y minutes. At any point in time, we must select the best inbox to use to send the email. The email volume must be as fairly distributed as possible.

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0 < N < 1000, 0 <= X <= 100, 5 <= Y <= 180
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N=1, 10 emails every 5 minutes, (1,-1)

10.00am 2 1 [2] // [1 2 3 4 5]

10.01am 3 1 [2,3]

10.02am 0 1 [2,3]

10.03am 5 1 [2,3,5]

10.04am 4 -1 [2,3,5]

10.05am 1 -1 [2,3,5]

10.06am 1 1 [3,5,1]

10.07am 2 -1 [3,5,1]