```
Algorithm
1) set small = 1
(2) Set big = M[lencM)-1]-M[0]
The answer should be one value in Esmall, big]
3 Binary sear oh
   while (small < big)
        middle = (small + big) 12
        for every difference between MCiJ and MCi-1J, i in [1,
           calculate the times we need to add new elements.
                    MEil-MEi+1 ] - 1
                    cceil)
                   For example
                     W [:] = 10
                      MCi+7=20 => 5-1=4
                       middle=2
                       MC+17=21 => 6-1=5
                      MCiJ= 10
                        middle = Z
         Add times together
             it the sum > K:
                  middle # onswer,
                  onswer should be bigger
                  left = middle +1
              else:
                   answer should & middle
                   right = middle
```

len(M)

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left is the answer. # code: ipad-6. CPP