A conveyor belt has packages that must be shipped from one port to another within days. The ith package on the conveyor belt in the order given by weight), we may not load more weight than the maximum weight capacity of the ship Return the least weight capacity of the ship that will result in all the package on the conveyor bet being shipped within days.

To find the least weight capacity of the shipneeded to ship ay packages within days, you can use a binary search Algorithm

def is - feasible (capacity):

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required = days = 1

current - weight = 0

for weights in weights;

if -current-weight + weight > capacity:

required = days+= 1

seturn - required - days == days

current-weight=0

left, right = max (weights), sum cweights)

while left cright:

mid = left+(right - left)// a

If-is-feasible (mid):

right = mid

21521

```
left = mid+1
   Har neutar
# example usage!
WEIGHTS = [11213141816171419110]
                                     #output+15
 days = S
Print (ship_within-days (weights, days))
```

you have nearly and m workers each task has a estrength requirement stored on a o-indixel integer -array tasks with the ith teast rejumes tasksers strength to complete. the strength of each worker is stored ma o-indexed integer array worken, with the 1th worker having worker (i) strength, each worker can only be assigned to single. task and must have a strength greater than or equal to the tasks. strength requirement (i.e. workers (i) = tasks (i)). modernam you have master and that will increase a woncers strength by strength . You an deade which worker recent the magical prills

to solve this problem, we can sort both the tasks and morrers amous in descending order, then for each took we Herak through the workers from the strongest to the weakers. dif maitasky (tasks, workers, pills, strength). tasks . soit (reverse = true) morkers . sour (severse = True) tasks-completed =0 used-pn1szo for task_bkenath in task! for it worker = strength in enumage (workers); if - moster - strength > = task 1 Stringth. workers - pof cis. tasks -completed + 21 bread else- Philoso- and worker - strength + strengths = tast_stronghi Pill 5 - 21 used - pills tz 1 tasks - completed to 1 preab return tasks - completed tasky = - (S141211) uniers = [71312111510] PTUSZa (MINIS CHIPPED & FOR strength 2 outlut should be 4 DANT - (max tasks (tasks, worker, PHTIS Treasty.

```
Ext. i in range (11 kH);

Ext. I in range (11 kH);

Ext. I in range (11 kH);

Mana = C1151377

Metal =
```

You have two frust baskets containing in Aruits each you are give two o-modered integer array baskets and baskets are make both baskets could chose two indices i and; and swap the fith sub or baskets with the oth the oth frust or baskets with the oth frust or

Return the mmimum cost to make both the baskets regular

def.min-cost-totalualbaskets (basket-11 basket-2);

return -1

baskett sonc)

basket 2. sorte

no-len (baskete)

WW-6021 = 0

for 1. In sange ch).

min - fost + = min (basket (1) basket 201)

seturn - min - cost

Print (min(65+ to caualbas ten Chasket 1 1 basket 2))

you have in super washing machine on a line Initially, each washing machine has some dresse on is empty, pol each more i you could choose any m (1< = m <= n) washing machine and pass one dress of each washing machine to an A's affacent washing machine at the same time.

2+ gressen. Weary markers warper year the villages

def minmove to equal pressy cmachine);

total - dresser = sum (machine)

if total - dresser to n 1 20;

teturn -1

Target - dresser = total - dresser IIN

max - mover = 0

for dresser in machine;

'dresser in machine;

'dresser in machine;

Print - (min mover to equal arese (machine)).