```
368 largest Divisible Subset
Pyramic Programming
Idea: For every element, it can belong to largest
       divisité set or it will not belong.
dp[i] -) represent maximum size of largest divisible
     subset for o.. 9
    of j < 1 and 1+ dp (i)
       ( NAWS (!) - N. NAWS [!] = 0
)
  Every Time we check
               nums(:) >> nums(:)
                  vame (!) v une e[!]
```

Instead we will stort more array and only
evect I condition

nums(i) ~ nums(i) ==0

alosi) - MAX (Asis) her formulation
dp(i) = MAX dp(i), 14 dp(i) had from he approach nums(i): nums(i)=0 After getting of array in Bottom he approach age optimal answer
we get optimal answer
built de array
eg nums: [2/1/5/e
80A nums [1/2/5/8
Enitialized to las any element Thirticalized to las any element itself is a divisible subset
for a in runge (1, len(dp)):
ter formula

$$| \frac{1}{2} | \frac{$$

11/2/5/8 [1/2/3

now from de array we know that size of largest divisible subject is 3 How to find that subject

no tind max in do arody index = de. index (max (dp))

ans: append (nums [index]) tindex of max
ans. append (nums [index])

current = max (dp)

for 21 in runge (index-1,-1,-1): if dp(x)+1==(urrent and (ans[len(ans)-1]);

ans. affered (unulx) Cright = tramo

1/2/2/3 uns = [umus[2]] = [8] tropent => for 2=2 100 aplejel = (navent 8-1 WNW2[5] = 0 False 8-1. 5 >0 751 Tove 96/17 +1 = (neven) For Tine 87.4 20 [R, 8] = 2MD current = desi] = 2

For x=0

AyloJt! = 2

(***

(**). ! = 0

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return ans[::-1]

1 9 8