- 1

$$25 = 7 \cdot \frac{3}{2} + \frac{4}{r}$$

0 ≤ r ≤ 6

Iden: 
$$q$$
 is the largest # so that  $nq \leq m$   
but  $n(q+1) > m$   
Well-Ordering: If S is non-empty set of  
not. #s, then it has a smallest element.  
Positive integers  
 $nq \leq m$   
 $n(q+1) > m$   
 $O \leq m - nq$   
 $o \leq m - n(q+1)$ 

 $\underbrace{E_{x: n=25, n=7}}_{\{25-n:7\}} = \underbrace{E_{x,32,25, 18, 11, 4}}_{\{25, 18, 11, 4\}}$ 

Another approach;  

$$S = \{ \text{ net. numbers } \text{ lnk} > \text{m-n} \}$$

$$E_{X}: n=7, m=25$$

$$S = \{ \text{lnk} \mid 7 \cdot \text{k} > 18 \}$$

$$= \{ 3, 4, 5, \dots \}$$

$$Well \text{-ording} S \text{ has a smillest elt.}$$

$$Call it q$$