the non-decreasing and nums this a single array corted

the emal sorted array should not be returned by the surction, but histered be stored enside the array num! To accommodate thes, num! has a length of min, where the smort in elements denote the elements that should be marged, and the last in elements, are set to 0 and should be agnored nums has a length of n.

Example 1:

old: 61255132121210000 , w=3 , unus = 65121911 =3

Explanation: the away we are merging are ?1,2,3) and (2,5,6). The result of the merge (\$(1,2,2,3,5,6)) with the underlined elements company from hum!

Public class MergesortedArrays?

Public void merge (9nt(3 nums), 9ntm, 9nt(3 nums), 9ntm) &

```
810=18) alrilu
     numa(k--) = nums213--1;
Public Static word man (Strong & Jargs) {
  MergesortedArray mergen = new MergesortedArray ();
     Pht[] nums 1 = (1, 2,3,0,0,03;
     Pnt m=3;
     Pot[] numsz = {2,5,63;
     but u=3!
     merge. merge (nums), m, nums 2, n);
     Ger (POT DUM: hums1)}
          System . out . perint (num + "");
     333
 Philial
     m=3 n=3.
    9=m-1=3-1=2 [9=2]
    3=1-1=3-1=2 $=2]
     K= m+n-1 = 3+3-1 = 6-1
               K=5]
  WHILE (P>=0 ER 9 1 =0)
        数=0 & 2 6>=0
                                       noms 2 ( 57 = 6
     CEBRAND < [8] BUND 3 89
             $ 17 k on nom3 /
              while (2) =0) 9
```

```
9--=1
                  nums =5
   Kanyy.
                  Noma1=4.
Revation 2:
       while (? = = 0 22 3>=0)
          37=0 8827=0
       P& COUMSICP] > NUMBERS)
            5>34 K Pr QUMSI
            whole (5 = 0) 4.
            num81[k--]= num82[9--]
                    3 ====
Pteration 3:
        White (9>=088 9>=0)
             31 =04 de 05 =07
        P& (nums 189) > nums 2 83)
                 3>27 k An noms 1
          white (2 > = 0)
             6--#1>6 Non 120648 to 5 60 vowl
             K -- = 5 > 1 < now posuto to 1 >> 540 sol 5 60
                                            nom3 1
froakon 4:
      9+ cnom 3 (93 > nom2 (3))
               2>
```

```
Public class mergeSortedArray?
      Public states worth magn (strong [] anges
   ¿[0,0,0,6,4,19=1318mun +19
    Pot nume [] = {2,3,6};
    Pot m=3
   Pot nes
   merge Arrays (numst, nums 2, m, n);
    parceut 6=0; 47 mtu; 6++) }
       System. out. portot (nums 1893+"");
  Public static void merge Array (Pnt [] nums ),
                  BUFEZUAMOSS, BUL W, BULU ) &
    But 6= w-1;
    90+ 9= n-1;
    Pot k=m+n-1;
    While (32=0)}
        98 (Px = 0 88 nums) [P] 1 nums 2 [9]
            nomal [+] = numsi [P];
             K -- 1
             9 -- ;
        else §
             numsily = numsals];
             3--;
```

```
9=m-1=3-1=2
9=1-1=3-1=2
 3=2
K=m+n-1
  = 3+3-1= 5.
(32=0)
  21=00
92=0 88-nums19712nums209
2>=0 & 6>301
 noma 1763=6.
  1<=4
  1=1.
 149m1EPJ=3>num=289J=5X
        21=04 N
 olse part.
    numa 2883at num 1 [K]
          3=0
           14-3
numa [ [ ] = 3 ] huma[ 3] = 2 9
   2> =04.
Nums 1 [13] = nums [8]
    nums 189] at numi (4)
    1-9
    14=2
  hums199]=2 humg209=2
       20024
else point
       nunszer at num [[6]
              P=-1
              (c=)
```