```
Perform insertion sort Key = a[i]
| 19 | 20 | 2 | 3 | 0 | 11 | 17 | 10 | 7 | i [] j [] Key [20]
 19/20/2/3/011/17/1017/ ; F2 j@1 Key202
 12/19/20/3/01/11/17/10/7/1/23 j@ +2 Ney 20/23
 12 |3 | 19120 | 0 | 11 | 17 | 10 | 7 | i | X X Y | j | X X Y | Key [20 x X O
 10/2/3)19/20/11/17/10/7/iF2345 j@x234
                              Key 20 280 11
 10/2/3/11/19/20/17/10/7/ iF28486 jØx2845
                         Ney 20 28 0 11 17
 10 [2]3] 11 [17/19/20/10/7] [FX84867 j@x23486
Neyl@ 28817 10
 10121311011117119120171 (FX848678 j@x284867
Key20230X17X07
 021317101111719120
                           Fully Sorted
Binary Search
                               Midpoint L+R = 4
Find 20, use L,R,M
 0 2 3 7 10 11 17 19 20
                               LO M9 R8
  0 1 2 3 4 5 6 7 8
                              a[m][o]
                                         L < M < R
                                           10 20
                             L 10 5
                                    M 4 6
                                             RP
                             a[m][10]17
                                         L<M<R
                                            17 20
```

