top = 4

| 2 | 5 | 6 | 9 | 1 | 7 |

compare A[top] with A[below top till 0]

top = 4

| 2 | 5 | 6 | 9 | 1 | 7 |
| 1 | 2 | 5 | 6 | 9 | 7 |
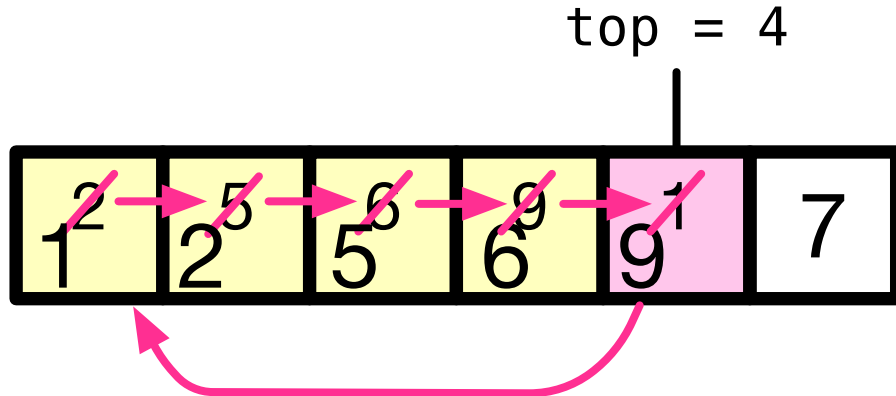
shift all elements that are > A[top] to right, and *insert* A[top] in its correct position with respect to the first **5** elements