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INDEX NO: 4709715

1. An array of 6 rows & 8 columns stored in a row major order starting at the base address 20. If an entry in the array requires only one memory cell, what is the address of the entry in the 3rd row and 4th column?

B = 20,

Address at [3,4]= B + Ci + Dj

= 20 + (8) (3-1) + (4-1)

=39

1. If each entry in the array requires two memory cells, what is the address of the entry in the 3rd row and 4th column?

If each entry requires two memory cells

Address = 20 + 2 \* (8 \* (3-1)+(4-1)) = 58