```
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                              MT 2
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Q1 for (row=0; row < N : rowt){
          for (col=0; col \ N; col+t) {
             if trow ==col)
                 trace = trace + in_matrix [row] [col];
Oz if (start > end)
          return - 1;
      int mid = (start tend-1)/2;
       if kmid == item)
          return mid:
       else if (array [mid] < item)
           return binary larray, start, mid-l, item);
      else
           return binary (array, midtl, end, item);
```

Q3 1)

X4000	1
X400 (	3
X4007	5
x4003	2
X4004	4
x4005	6

row-major

2) True

pointer holds (fixed size) depend on machine

2 \		Uť
3)		$\neg$
XBCDO		_
XBCD		
xBCD2		_
xBcD3	M	
XBCD4	k	
x BCD5	caller frame pointer	
xBCD6	return address	
XBC D7	return value	
XBCD8	W	
XBCD9	10	
	r 1 a	