# RANDOM INTERVIEW QUESTIONS

Q. Implement Your Own sizeof

Ans. #define my\_sizeof(type) (char \*)(&type+1)-(char\*)(&type)

Q. suppose P is 0. What is P+1 in the following cases:

a. int (\*p)[10][10]

b. int p[10][10]

Ans. a. When P is a pointer, think about the size of the object it is talking to.

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b. When P is an array name, always think as is P is pointing to some location, where will P[1] point to.

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Q. Count set bits in an integer

Ans. n&(n-1)

Q. Check if a string has duplicates.

Ans. Take an integer, and map every character to the bits of the integer. For a character C, C-‘a’ position bit is set to 1, so if a character repeats, that position bit will be set as 1 which means it’s a duplicate.

Q. Reach the end of the array in minimum number of jumps.

# Q. Maximum size square sub-matrix with all 1s.

# Q. Find the maximum repeating number in O(n) time and O(1) extra space.

# Q. Iterative pre-order traversal.

# Q.\*How is hashmap implemented in programming?

# Q. Find zeroes to be flipped so that number of consecutive 1’s is maximized.

# Q. Maximum profit by buying and selling a share at most twice

# Q. Palindrome partitioning with minimum cuts.