

*1st round was machine coding round:*

*In this round, they asked me to develop a dating application which has users location (x,y), name, interests(eg: swimming, painting etc.), age, sex etc. The output should be recommendations of other users with similar interests near the user's location sorted based on score(score is defined as ratio of no. of common interests and no. of total interests). Everything should be stored in memory but not in DB. How the code is implemented is important in this round along with correctness of output.*

*2nd round was problem-solving:*

*Q1:  $m \times n$  matrix is given which has only 0's and 1's. Find the largest square made up of 1's in the matrix. I took too long to come with a good solution for this problem.*

*Q2: A dictionary of strings is given. Find the minimum distance between 2 given strings(Both the strings will be in dictionary).*

*eg:*

*Dictionary = [abc, abe, ade, cde]*

*1st string = abc*

*2nd string = cde*

*Valid Path: abc->abe->ade->cde => distance = 2*

*Invalid Path: abc->cbc->cdc->cde*

*The path is invalid because cbc and cdc are not in the given dictionary.*

*The interviewer gave a hint to me("GRAPHS"). Then I solved it easily.*