Assignment -12 (22-6-24) 1) given an array of [4,+2, 5, 3, 10, -5, 2, 8 -3, 6, 7, -4, 1, 9, -1, 0, -6, -8, 11, -9] integure find the maximum and minimum broduct that can be obtained by multiplying two integer from away. Solution array is [4,-2,5,3,10,-5,2,8,-3,6,7,-4,1,9 -1, 0, -6, -8, 11, -97 Doct the away. 2) Identify Possible Condidates for meximum bushed 3) Hentity Possible Cardiclates for mainimum broduced Calculting meainum budued. The two largest Post Aux numbers are to and 11 The two smallest negative numbers are . 9 and -8 - 9 x-8 = 72 The maximum Penduct is 110 The largest Positive and negative number is 4 or -9 11 x-9= -99 The smallest Positive regetive number and -9 X-8= 72 99 is smalley than 72 50 Maximum Revoluet = 10 and minimum Brodust = -99

Demonstrate the Binary Search method to search to the y 223 from the away = {8,5,8,12,16, Thus try = 23 and werey = {2,5,8,12,16,20, 23, 38, 38, 72,913 28, 5, 6, FL, 913 I Intialize pointers low 2 0 and high = 9 mid = [100 + high] = 0 [6+4] = 5 Compared over [mid] with by and [4] = 16 16 2 23 low = mid +1 = 5 · mid = (10 w thigh) = (5 +4) = 7 compare are [mid] with key 56 > 23 update rugh avy 4) =56 mid=[3+6] 2 S aux [mid] = aux [5]=23 23 == 28 Key=23 Index = 5 60

Selvelin South wast through the Perform Solvery Sangering your outset of restaining the training sounds of the sounds sounds the sounds sounds of the sound of the sounds of the sounds of the sounds of the sounds number of source of the time Complexity is O(m2) Time Complexity; Selection sout in Big o nutation 5. Find, the Index of the Tonget Value of to wing being securely from the following his element Quen List = 8 2, 4, 6, 8, 10, 2, 14, 16, 18, 203 2 2,4, 6,8, 10,2, 14, 16, 18,203 5= 8 (2, 4, 5, 2, 18, 6, 12 43 No. of Sweets n = 3 45 The tooget is found at tides 4. Volue = 10 is found atthdux 4 mid = low + high = 6+9 = 4 low = 0 and high = 9 mid = 10 puil = = bolue volus, = 10 07 22 01