Question 7

Secondlargest function take an array and it's size as arguments. In this function, a Initialise a largest Variable assign the first element of the arrays and initialise a secondlargest Variable. Comparing the elements and assign the comparing the elements and assign the comparing the values to the corresponding Variable. Sirally return the secondlargest.

K-hlargest Runchion take an array and it's

Size and a Value for the ke as argument
firstly checking is the value of K 1'5.

Re Possible number Then, it iteratively find the
maximum element in the array K times. In

each iteration updates the maximum to the
each iteration updates the maximum so far.

index at the maximum element found so far.

when it reactes the kth iteration it wishe

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the mash Sunstion is taking an array as import from the user. Secondlargest Sunctions (alled to get Second largest number. 12th largest function labled to get with element.

Question 8

Court Deplectes function takes an away and H's Size as arguments metalise a among Inquery at size 256 with all clements to Set O. This array is used to store withe Inequery set each desoctor on the input array. first loop serases over the input analy and meserments the corresponding index in the frequency of each character in the array Second loop Herates over the frequency array and checks for any elements with a frequency grenter Hon 1. if a character occur more Hur once it calculates the number of duplicate es by substracting ; from the frequency and : adds into the diplicaties. finally neturns the diplocate lements.

The wan function is taking an hyport and from the uses. Could de Count Dyliases function.

Question 9

i mesgetrays Sunction takes two Ented arrays and its Some as arguments.

The function initializes three indices: "For arr 1" is for arr 2 and "Is" for nesult. all initially Set to 0.

the abole loop in the function Compare the elements of usual and and she by one. It selects the smaller one and assigns it to resulted. Corresponding indones increamented, it also. After while loop the remaining dements in and arra Those separate while loops add them to result.

the main saddition takes and and and and forth Same size from the used in sorted. Then call function mergethnays.