Task 1

The code here achieves its good to sixt brough an integer list by of first quettry the list through a merce south furction that divides the list into manageoske hadres which are then southed and then merged book through the 'nerge' function i which iterates thrown the lists, each being appealed into a menh list beyod on that numerical order until all elements are processed.

Toun 2

The code finds the review role of an array by
Necusively divides the array into hales until it
Nearlies a sore cose from where it figures out
Musimum volves by comparing between 'left' and
'right' until on overall maximum is faint.

The code sexts out the fuller alies from the smaller are by using the the mesh furether (par' which recognety divides and conquery through the array by splitting them into habites. After which it compass between left and right and courts the number of inversion, which it reports.

Tosks

The code finds the norman value of D[]+D[]?

in a large cray by of Stop implements a

dride and conquer strategy by breaking the array, its

hadres reconstruely. It then single out the largest

values of the known, which it was shall to it.

The Inefilm 'Calc-sea' to find a secondary rete,

which is compared to a whole array of secondary

values, and of which the magning.

Tosk 5

The code here if an implementation of the quickert algorithm, although it direction divides up the crienty of the substitute of the quickert firetion divides up the crienty to the substitute of the partition divides the force elements around a chosen private, and snows them - The quicksort furthern then coursingly sorts the partitioned substitute for the perfection of substitute of the perfection of substitute of the perfect of the

TOTH 6