/*Implementation of Merge Sort & Quick Sort Menu Driven*/ #include int mergesort(); int quicksort(); int main() { int choice; //clrscr(); do { printf("\n\t\tProgram for Merge Sort and Quick Sort \n"); printf("\n\tMain Menu: \n1.Merge Sort\n2.Quick Sort\n3.Exit"); printf("\nSelect menu : "); scanf("%d",&choice); switch(choice) { case 1: mergesort(); break; case 2: quicksort(); break; case 3: printf("\nExiting the program"); break; default: printf("Invalid menu item selected."); } }while(choice != 3); return 0; } //Function Declaration void qsort(int [],int,int); int partition(int [],int,int); int quicksort() { int a[50],i,n; //clrscr(); printf("\n Enter Size of Array:"); scanf("%d",&n); printf("\n Enter Array Elements:\n"); for(i=0;imid) { for(k=m; k<=max; k++) { tmp[i] = arr[k]; i++; } } else { for(k=j; k<=mid; k++) { tmp[i] = arr[k]; i++; } } for(k=min;k<=max;k++) { arr[k] = tmp[k]; } } /*Output Enter Total No. of Elements: 14 Enter Elements : 66 33 40 22 55 88 60 11 80 20 50 44 77 30 ------Merged Sorted Elements-------- 11 20 22 30 33 40 44 50 55 60 66 77 80 88 */