Assignment 7

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#include <stdio.h>
int main()
{
 // Enter the array
  // printf("Enter the size of arr: ");
  // int size;
  // scanf("%d", &size);
 // int arr[size];
 // for (int i = 0; i < size; i++)
 //{
 // printf("Enter the no at index of %d: ", i);
 // scanf("%d \n", &arr[i]);
 //}
 // for (int i = 0; i < size; i++)
 //{
 // printf("%d ", arr[i]);
 //}
  int arr[8] = {6, 2, 7, 4, 9, 13, 5, 8};
  // // Print Arrary
  printf("Arrary: ");
  for (int i = 0; i < 8; i++)
 {
    printf("%d ", arr[i]);
  }
  printf("\n");
```

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// Max no in Arrary
int max;
int min;
for (int i = 0; i < 8; i++)
{
  if (max < arr[i])
  {
    max = arr[i];
 } else if (min > arr[i]){
    min = arr[i];
 }
}
printf("Max No: %d Min : %d\n", max, min);
// Min no in Arrary
// int min = arr[0];
for (int i = 0; i < 8; i++)
{
  if (min > arr[i])
  {
    min = arr[i];
 }
}
printf("Min No: %d \n", min);
// sum of elements in arrary
int sum = 0;
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for (int i = 0; i < 8; i++)
{
  sum += arr[i];
}
printf("Sum of all elements in arrary is : %d \n", sum);
// Find even odd no in arrary
for (int i = 0; i < 8; i++)
{
  if (arr[i] % 2 == 0)
  {
    printf("Even : %d \n", arr[i]);
  }
  else
  {
    printf("Odd: %d\n", arr[i]);
 }
}
// Print alternate elements in arrary
printf("Even Position \n");
for (int i = 0; i < 8; i++)
{
  if (i % 2 == 0)
  {
    printf("Positon %d : %d \n", i, arr[i]);
 }
}
printf("Odd Position n");
```

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for (int i = 0; i < 8; i++)
{
  if (i % 2 == 1)
  {
    printf("Positon %d : %d \n", i, arr[i]);
 }
}
// Accept arrary and print only prime numbers of arrary.
// int arr[8] = {6, 2, 7, 4, 9, 13, 5, 8};
printf("Prime: ");
for (int i = 0; i < 8; i++)
{
  int no = arr[i];
  int flag = 0;
  for (int j = 2; j < no; j++)
  {
    if (no % j == 0)
    {
      flag = 1;
      break;
    }
  }
  if (flag == 0)
  {
    printf(" %d ", no);
```

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}
}
// take a arrary and sum in third arrary
int arr1[5] = \{1, 2, 3, 4, 5\};
int arr2[5] = \{10, 20, 30, 40, 50\};
int arrsum[5];
for (int i = 0; i < 5; i++)
{
  arrsum[i] = arr1[i] + arr2[1];
}
printf("sum of the arr is:");
for (int i = 0; i < 5; i++)
{
  printf("%d ", arrsum[i]);
}
// Mearg two arrarys
// int arr1[5] = {1, 2, 3, 4, 5};
// int arr2[5] = {10, 20, 30, 40, 50};
int mearg[10];
for (int i = 0; i < 10; i++)
{
  mearg[i] = arr1[i];
}
for (int i = 0; i < 5; i++)
{
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mearg[i + 5] = arr2[i];
}
for (int i = 0; i < 10; i++)
{
  printf("\%d \n", mearg[i]);\\
}
// Revers the given arrary
// int arr[8] = {6, 2, 7, 4, 9, 13, 5, 8};
for (int i = 0; i < 8; i++)
{
  printf("%d ", arr[i]);
}
printf("\n ");
int temp;
for (int i = 0; i < 8/2; i++)
{
  // printf("%d ", arr[i]);
  // for (int j = i+7; j >= i; j--)
  //{
    // printf("%d ", arr[i]);
    temp = arr[i];
    arr[i] = arr[7-i];
    arr[7-i] = temp;
  //}
}
for (int i = 0; i < 8; i++)
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{
  printf("%d ", arr[i]);
}
// Sort the arrary
// int arr[8] = \{6, 2, 7, 4, 9, 13, 5, 8\};
// int temp;
for (int i = 0; i < 8; i++)
{
  /* code */
  for (int j = i + 1; j < 8; j++)
  {
    if \, (arr[i] > arr[j]) \\
    {
      temp = arr[i];
      arr[i] = arr[j];
      arr[j] = temp;
    }
 }
}
for (int i = 0; i < 8; i++)
{
 printf("%d ", arr[i]);
}
```

}