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Q 01,
#include <stdio.h>
int main()
int array_size = 10;
int array[array_size];
printf("Enter 10 integer values for the array:\n");
for (int i = 0; i < array_size; i++)</pre>
{
scanf("%d", &array[i]);
}
int minimum = array[0];
int maximum = array[0];
int sum = array[0];
for (int i = 1; i < array_size; i++)</pre>
if (array[i] < minimum)</pre>
minimum = array[i];
}
if (array[i] > maximum)
{
maximum = array[i];
}
sum += array[i];
}
float average = (float)sum / array_size;
int reversed_array[array_size];
for (int i = 0; i < array_size; i++)</pre>
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{
reversed_array[i] = array[array_size - 1 - i];
}
printf("single dimensional Array:");
for (int i = 0; i < array_size; i++)</pre>
 {
printf(" %d", array[i]);
}
printf("\nMinimum Value: %d\n", minimum);
printf("Maximum Value: %d\n", maximum);
printf("Average Value: %.2f\n", average);
printf("Reverse Order:");
for (int i = 0; i < array_size; i++)
 {
printf(" %d", reversed_array[i]);
printf("\n");
return 0;
}
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Q 02,
#include <stdio.h>
void userinputarray(int size, int array[]) {
  for (int i = 0; i < size; i++) {
    printf("Enter element %d: ", i + 1);
    scanf("%d", &array[i]);
  }
}
int scalar(int size, int array[]) {
  int sum = 0;
  for (int i = 0; i < size; i++) {
    sum += array[i];
  }
  return sum;
}
void vector(int size, int array1[], int array2[], int result[]) {
  for (int i = 0; i < size; i++) {
    result[i] = array1[i] + array2[i];
  }
}
int main() {
  int size;
  printf("Enter the size of the arrays: ");
  scanf("%d", &size);
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if (size <= 0) {
  printf("Size should be a positive integer.\n");
  return 1;
}
int array1[size], array2[size], vresult[size];
printf("\nFor Array 1:\n");
userinputarray(size, array1);
printf("\nFor Array 2:\n");
userinputarray(size, array2);
int sresult = scalar(size, array1);
printf("\nScalar Sum: %d\n", sresult);
vector(size, array1, array2, vresult);
printf("\nVector Sum: ");
for (int i = 0; i < size; i++) {
  printf("%d ", vresult[i]);
}
printf("\n");
return 0;
```

}