

Q1

```
#include <stdio.h>
```

```
int main() {
    int array[10];
    int i;
    int min_value, max_value;
    float average_value, sum = 0;

    // Input values to the array
    printf("Enter 10 values for the array:\n");
    for (i = 0; i < 10; i++) {
        scanf("%d", &array[i]);
        sum += array[i];
    }

    // I. Minimum value
    min_value = array[0];
    for (i = 1; i < 10; i++) {
        if (array[i] < min_value) {
            min_value = array[i];
        }
    }

    // II. Maximum value
    max_value = array[0];
    for (i = 1; i < 10; i++) {
        if (array[i] > max_value) {
            max_value = array[i];
        }
    }

    // III. Average value
    average_value = sum / 10;
```

```

// IV. Reverse order of values
printf("Reverse order of values:\n");
for (i = 9; i >= 0; i--) {
    printf("%d ", array[i]);
}
printf("\n");

// Print the results
printf("Minimum Value: %d\n", min_value);
printf("Maximum Value: %d\n", max_value);
printf("Average Value: %.2f\n", average_value);

return 0;
}

```

Q2

```
#include <stdio.h>
```

```

int main() {
    int size;
    printf("Enter the size of the arrays: ");
    scanf("%d", &size);

    int array1[size], array2[size], vector_sum[size];
    int scalar_sum = 0;

    // Input values to the first array
    printf("Enter %d values for the first array:\n", size);
    for (int i = 0; i < size; i++) {
        scanf("%d", &array1[i]);
    }

    // Input values to the second array
    printf("Enter %d values for the second array:\n", size);
    for (int i = 0; i < size; i++) {

```

```
    scanf("%d", &array2[i]);
}

for (int i = 0; i < size; i++) {
    scalar_sum += array1[i];
}

for (int i = 0; i < size; i++) {
    vector_sum[i] = array1[i] + array2[i];
}

// Display the results
printf("Scalar Sum: %d\n", scalar_sum);

printf("Vector Sum (Third Array):\n");
for (int i = 0; i < size; i++) {
    printf("%d ", vector_sum[i]);
}
printf("\n");

return 0;
}
```