

Lab 7 Additional (Arrays)

Q-1. Write a program which read two sets of integer elements (10 elements for each set) and find the union of two entered sets.

Hint-1.

The elements of set A and B should be unique according to set properties.

Hint-2.

The union of set A and B includes all elements which either exist in Set A, Set B or in both sets.

Expected Outputs:

Example-1	Example-2
Enter 10 Elements of Set A: <u>1</u> <u>2</u> <u>3</u> <u>4</u> <u>5</u> <u>6</u> <u>7</u> <u>8</u> <u>9</u> <u>10</u> Enter 10 Elements of Set B: <u>11</u> <u>12</u> <u>13</u> <u>14</u> <u>15</u> <u>16</u> <u>17</u> <u>18</u> <u>19</u> <u>20</u> The Union of Set A and B are: 1 2 3 4 5 6 7 8 9 10 11 12 13	Enter 10 Elements of Set A: <u>1</u> <u>2</u> <u>3</u> <u>4</u> <u>5</u> <u>6</u> <u>7</u> <u>8</u> <u>9</u> <u>10</u> Enter 10 Elements of Set B: <u>1</u> <u>2</u> <u>3</u> <u>4</u> <u>5</u> <u>6</u> <u>7</u> <u>8</u> <u>9</u> <u>10</u> The Union of Set A and B are: 1 2 3 4 5 6 7 8 9 10

14 15 16 17 18 19 20	
Example-3	Example-4
Enter 10 Elements of Set A: <u>1</u> <u>2</u> <u>3</u> <u>4</u> <u>5</u> <u>6</u> <u>7</u> <u>8</u> <u>9</u> <u>10</u> Enter 10 Elements of Set B: <u>1</u> <u>3</u> <u>5</u> <u>7</u> <u>9</u> <u>11</u> <u>13</u> <u>15</u> <u>17</u> <u>19</u> The Union of Set A and B are: 1 2 3 4 5 6 7 8 9 10 11 13 15 17 19	Enter 10 Elements of Set A: <u>-1</u> <u>-2</u> <u>-3</u> <u>-4</u> <u>-5</u> <u>-6</u> <u>-7</u> <u>-8</u> <u>-9</u> <u>-10</u> Enter 10 Elements of Set B: <u>-1</u> <u>-3</u> <u>-5</u> <u>-7</u> <u>-9</u> <u>-11</u> <u>-13</u> <u>-15</u> <u>-17</u> <u>-19</u> The Union of Set A and B are: -1 -2 -3 -4 -5 -6 -7 -8 -9 -10 -11 -13 -15 -17 -19

Q-2. Write a program which read an array of 10 integer elements and find the frequency of any entered number in the given array.

Expected Outputs:

Example-1	Example-2
Enter 10 Integer Elements: 1 3 4 4 3 7 3 5 3 9 Enter Element to Find its Frequency: 3 The frequency of 3 is 4	Enter 10 Integer Elements: 1 3 4 4 3 7 3 5 3 9 Enter Element to Find its Frequency: 13 The frequency of 13 is 0

Q-3. Write a program which read an array of 10 integer elements and find the frequency of each element of array.

Expected Outputs:

Example
Enter 10 Integer Elements: 1 3 4 4 3 9 3 5 3 9 The frequencies of each element as follow: 1 Occurs 1 times 3 Occurs 4 times 4 Occurs 2 times 9 Occurs 2 times 5 Occurs 1 times