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CSC 340

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Homework # 8 Part 1

Choose an option and follow instructors accordingly for functions to work properly. This program is to test the Vector ADT built.

Sample Test Output

---Vector ADT Testing---

---Please select an option---

1.Display

2.Push\_Back

3.Pop\_Back

4.Size

5.Capacity

6.Resize

7.IsEmpty

8.Erase

9.Insert

10.Shrink

0.Exit

---Enter Your Choice---

1

Your Vector:

---Please select an option---

1.Display

2.Push\_Back

3.Pop\_Back

4.Size

5.Capacity

6.Resize

7.IsEmpty

8.Erase

9.Insert

10.Shrink

0.Exit

---Enter Your Choice---

2

Enter a value to push back:1

Your Vector: 1

---Please select an option---

1.Display

2.Push\_Back

3.Pop\_Back

4.Size

5.Capacity

6.Resize

7.IsEmpty

8.Erase

9.Insert

10.Shrink

0.Exit

---Enter Your Choice---

2

Enter a value to push back:2

Your Vector: 1 2

---Please select an option---

1.Display

2.Push\_Back

3.Pop\_Back

4.Size

5.Capacity

6.Resize

7.IsEmpty

8.Erase

9.Insert

10.Shrink

0.Exit

---Enter Your Choice---

2

Enter a value to push back:3

Your Vector: 1 2 3

---Please select an option---

1.Display

2.Push\_Back

3.Pop\_Back

4.Size

5.Capacity

6.Resize

7.IsEmpty

8.Erase

9.Insert

10.Shrink

0.Exit

---Enter Your Choice---

3

Your Vector: 1 2

---Please select an option---

1.Display

2.Push\_Back

3.Pop\_Back

4.Size

5.Capacity

6.Resize

7.IsEmpty

8.Erase

9.Insert

10.Shrink

0.Exit

---Enter Your Choice---

4

The size of the vector is 2

---Please select an option---

1.Display

2.Push\_Back

3.Pop\_Back

4.Size

5.Capacity

6.Resize

7.IsEmpty

8.Erase

9.Insert

10.Shrink

0.Exit

---Enter Your Choice---

5

The capacity of the vector is 4

---Please select an option---

1.Display

2.Push\_Back

3.Pop\_Back

4.Size

5.Capacity

6.Resize

7.IsEmpty

8.Erase

9.Insert

10.Shrink

0.Exit

---Enter Your Choice---

6

Enter a value to resize the vector to:12

The new size of the vector is 12

---Please select an option---

1.Display

2.Push\_Back

3.Pop\_Back

4.Size

5.Capacity

6.Resize

7.IsEmpty

8.Erase

9.Insert

10.Shrink

0.Exit

---Enter Your Choice---

4

The size of the vector is 12

---Please select an option---

1.Display

2.Push\_Back

3.Pop\_Back

4.Size

5.Capacity

6.Resize

7.IsEmpty

8.Erase

9.Insert

10.Shrink

0.Exit

---Enter Your Choice---

5

The capacity of the vector is 12

---Please select an option---

1.Display

2.Push\_Back

3.Pop\_Back

4.Size

5.Capacity

6.Resize

7.IsEmpty

8.Erase

9.Insert

10.Shrink

0.Exit

---Enter Your Choice---

7

---Please select an option---

1.Display

2.Push\_Back

3.Pop\_Back

4.Size

5.Capacity

6.Resize

7.IsEmpty

8.Erase

9.Insert

10.Shrink

0.Exit

---Enter Your Choice---

8

At what location would you like to erase a value?

Enter a number(INT) for location, e.g (0 = first element): 1

Value was erased

Your Vector: 1 0 0 0 0 0 0 0 0 0 0 ---Please select a

n option---

1.Display

2.Push\_Back

3.Pop\_Back

4.Size

5.Capacity

6.Resize

7.IsEmpty

8.Erase

9.Insert

10.Shrink

0.Exit

---Enter Your Choice---

9

Enter a value you wish to insert: 152

Where would you like to insert that value? Enter a number(INT) for location: 5

Your Vector: 1 0 0 0 0 152 0 0 0 0 0 0

---Please select an option---

1.Display

2.Push\_Back

3.Pop\_Back

4.Size

5.Capacity

6.Resize

7.IsEmpty

8.Erase

9.Insert

10.Shrink

0.Exit

---Enter Your Choice---

10

Vector shrink\_to\_fit function has been called

Capacity of vector is 12

---Please select an option---

1.Display

2.Push\_Back

3.Pop\_Back

4.Size

5.Capacity

6.Resize

7.IsEmpty

8.Erase

9.Insert

10.Shrink

0.Exit

---Enter Your Choice---

0

Thank you

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Process exited after 53.48 seconds with return value 0

Press any key to continue . . .