**Get Rescue Summary**

Get Vessel in Distress Data

Set Coast Guard Vessel Data

Calculate Distances to Vessel in Distress

Calculate Times to Reach Vessel in Distress

Display Rescue Summary

**Get Vessel in Distress Data**

Display “Enter the Name of the Vessel in Distress: “ to user

Get vesselName from user

Display “Enter the Date and Time of Incident: “ to user

Get dateTime from user

Display “Enter Number of People to be Rescued: “ to user

Get numPeople from user

Display “Enter the X coordinate of the Vessel in Distress: “ to user

Get xCoord from user

Display “Enter the Y coordinate of the Vessel in Distress: “ to user

Get yCoord from user

**Set Coast Guard Vessel Data**

Set cg1XCoord to 10

Set cg1YCoord to 20

Set cg1Speed to 22

Set cg1Capacity to 8

Set cg2XCoord to 5

Set cg2YCoord to 5

Set cg2Speed to 30

Set cg2Capacity to 5

Set cg3XCoord to 18

Set cg3YCoord to 2

Set cg3Speed to 12

Set cg3Capacity to 25

Set cg4XCoord to 29

Set cg4YCoord to 10

Set cg4Speed to 19

Set cg4Capacity to 14

Set cg5XCoord to 3

Set cg5YCoord to 12

Set cg5Speed to 23

Set cg5Capacity to 8

Set cg6XCoord to 11

Set cg6YCoord to 17

Set cg6Speed to 12

Set cg6Capacity to 25

Set cg7XCoord to 12

Set cg7YCoord to 22

Set cg7Speed to 22

Set cg7Capacity to 8

**Calculate Distances to Vessel in Distress**

Set distance1 to Sqrt((xCoord – cg1XCoord)2 + (yCoord – cg1YCoord)2)

Set distance2 to Sqrt((xCoord – cg2XCoord)2 + (yCoord – cg2YCoord)2)

Set distance3 to Sqrt((xCoord – cg3XCoord)2 + (yCoord – cg3YCoord)2)

Set distance4 to Sqrt((xCoord – cg4XCoord)2 + (yCoord – cg4YCoord)2)

Set distance5 to Sqrt((xCoord – cg5XCoord)2 + (yCoord – cg5YCoord)2)

Set distance6 to Sqrt((xCoord – cg6XCoord)2 + (yCoord – cg6YCoord)2)

Set distance7 to Sqrt((xCoord – cg7XCoord)2 + (yCoord – cg7YCoord)2)

**Calculate Times to Reach Vessel in Distress**

Set time1 to distance1 / cg1Speed

Set time2 to distance2 / cg2Speed

Set time3 to distance3 / cg3Speed

Set time4 to distance4 / cg4Speed

Set time5 to distance5 / cg5Speed

Set time6 to distance6 / cg6Speed

Set time7 to distance7 / cg7Speed

**Display Rescue Summary**

Display “Rescue Summary” to user

Display “Vessel in Distress: ”, vesselName to user

Display “Incident Date and Time: “, dateTime to user

Display “Number of People Aboard: “, numPeople to user

Display “Incident Location: (“, xCoord, “,”, yCoord, “)” to user

Display “Vessel Number”, “Capacity”, “Distance”, “Rescue Time” to user

Display “1”, cg1Capacity, distance1, time1

Display “2”, cg2Capacity, distance2, time2

Display “3”, cg3Capacity, distance3, time3

Display “4”, cg4Capacity, distance4, time4

Display “5”, cg5Capacity, distance5, time5

Display “6”, cg6Capacity, distance6, time6

Display “7”, cg7Capacity, distance7, time7