Static variables: COST\_TWENTY\_CABLE = 55; COST\_TWENTYFIVE\_CABLE = 65

|  |  |  |
| --- | --- | --- |
| * cableCostPerFoot * firstConnector * secondConnector * cableLength * revenue * totalExpense * totalCableCost * totalConnectorCost * amountOfCables * howLong | * prompt for cableCostPer * prompt for each Connector * prompt for cableLength * totalConnectorCost = ((lengthOfCable / 2) \* first) + ((lengthOfCable / 2) \* second) * calculate totalCableCost * calculate totalExpense * howLong - twenty or twentyfive feet? | * Print “For” + amountOfCables + “cables costing” + cableCostPerFoot + “per foot, you will make $” + revenue + “.” |

Solution Algorithm

BEGIN

Calculate\_CableCost

1. Prompt for sellPrice
2. Prompt for desiredLength
3. Get finalLength
4. Prompt for cableCostPerFoot, cableLength, connectorOneCost, connectorOneCount, connectorTwoCount, connectorTwoCost
5. initialConnectorCost = (connectorTwoCount \* connectorTwoCost) + (connectorOneCOunt \* connectorOneCost)
6. amountOfCables = cableLength / desiredLength
7. finalConnectorCost = amountOfCables \* initialConnectorCost
8. cableOnlyCost = cableLength \* cableCostPerFoot
9. totalExpense = finalConnectorCost + cableOnlyCost
10. profit = amountOfCables \* sellPrice
11. revenue = profit - totalExpense