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| **LAB211 Assignment** | **Type:** | **Short Assignment** |
| **Code:** |  |
| **LOC:** | **350** |
| **Slot(s):** | **5** |

**Title**

Collecting household waste

**Background Context**

The Environmental Sanitation Company is responsible for collecting household waste, according to the following descriptions:

* The truck can contain a maximum of 10 tons of garbage.
* The truck will go to each garbage transfer station on the route in order and collect the garbage. If it can't collect all the garbage at a station, it will take the garbage to the dump and return to load the garbage onto the truck.
* The average time to load garbage at a point is 8 minutes.
* The average time to go to and from the dump is 30 minutes.
* Labor and transportation costs are calculated at 120,000 VND/hour.
* The cost to be paid for the dump is 57,000 VND/truck.

Write a program to estimate the cost of bidding for garbage collection. Input: the input data is the amount of garbage at each station, entered from the keyboard. The number of stations ends with the organization entering data.

Output: Calculate and print the estimated cost of garbage collection.

Example: enter the amount of garbage at each station in order by quantity (kg) as follows:

1765 2808 952 4206 3102 3902 1292 3985 8324 1928 4426 397 3277

The program should output:

The total cost is 910,000 VND

Hint:

* The cost of bidding = Time \* 120,000 + Cost paid for the dump;
* Declare variables:
  + Total: contains the garbage of each station.
  + Time: time to collect garbage at the station (8 minutes) and the time to go to the dump (30 minutes).
* Declare an integer array to store the amount of garbage at each station.
* At each station:
  + Total = Total + garbage at the station;
  + Time = Time + 8 minutes;
  + If the truck is full (10 tons of garbage): dump the garbage, Total = 0 and Time = Time + 30 minutes.
  + At the last station: the truck returns to the station, Time increases by 30 minutes.