Problem 2

A Messy Proposition

3 Points

Program Name: messy.cpp **Input File: messy.dat**

A refuse collection company has to provide bids to local neighborhoods for the cost of collecting trash each week. Each neighborhood provides a list of streets and an estimated amount (in weight) of trash generated by the residents of the street. Your program should use these rules for routes when calculating bids:

1. A refuse truck holds a maximum of 10,000 pounds of trash.
2. A truck will start on the first street of the neighborhood and collect all of the trash on that street. The truck then collects trash on subsequent streets in the same order as they are listed in the input file.
3. If a truck cannot hold all of the trash on a new street, the truck will go to the landfill and empty its load before collecting any trash from the new street.
4. The truck will end the route with a trip to the landfill to empty the truck.
5. Regardless of the amount of trash to collect, it takes a truck exactly eight minutes to pick up all of the refuse on a single street.
6. It takes 30 minutes for the truck to go to the landfill, unload, and return to the street. On its last trip, it takes 30 minutes for the truck to go to the landfill, unload, and return to the collection station.
7. A truck and its crew costs $120/hour.
8. Each trip to the landfill costs $57, regardless of the amount of trash to be dumped.

Your program will read the data for a given neighborhood and determine the cost to collect and dispose of the trash on the street.

Input

Input to your program consists of a series of integers representing the weight of trash on a street. The truck will collect the trash in the order that the weights are listed. There is one integer weight per line and all weights are between 1 and 10000 pounds (inclusive). There will be at least one street in the input file. There is no limit to the number of streets.

Output

Output of your program should contain a single line formatted as "`Bid $`*X*" where *X* is the number of dollars (left justified with no leading zeroes) that the company should bid for the job based on the eight rules above. Case counts, your program should contain the dollar sign, and you should **not** print the number of cents.

Example: Input File

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

Output to screen

```
Bid $910
```