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Analysis report

*The one where money need to be
transported*

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Step 1 - Understand the problem

A script is needed. It needs to calculate how many bags of different sizes can fit in the truck. The size of the truck will be chosen by the user at each start of the program, the bags have fixed sizes (20L, 50L, 80L). The script should prioritize using as many big bags as possible and the prioritize using as many medium bags as possible.

Each different size of bag will be calculated by its own loop.

The last thing needed by this script is to calculate the total value of all bags

Understanding the words

There were no difficult words in the task description.

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Step 2 - Devising a plan

I had a hard time devising a plan that involved loops as I saw solution needing none but after some thinking a solution was found that I represent with pseudo code below

```
temp=(truck size)
while(temp) >= 0
    (temp) - (bag cap)
    (max bagtype) +1
```

$(\text{leftover}) = (\text{truck size}) - (\text{max bagtype}) \times (\text{bag cap})$

After this code the next loop use $\text{temp}=\text{leftover}$ and a start a new loop with the same calculations. When we get through all the loops the script will calculate the total value with a for loop as shown with pseudo code bellow

```
for each bagtype
    value = value + maxBag[bagtype]*bagValue[bagtype]
```