

Hello Change

At Rocketmiles, our team loves travelling. However, many places we travel don't accept our credit cards, and we have to remember to bring dollar bills with us. We've had to correct a few vendors about giving us the correct change from their cash registers, sometimes we get too much and sometimes we get too little. Create a cash register that should be able to accept only \$20, \$10, \$5, \$2 and \$1 bills. Given the charge and amount of money received return the change in each denomination that should be given from the cash register. Sometimes when the vendors couldn't make exact change they would tell us they couldn't make exact change.

It's safe to assume that all output will be printed to the command line, below are some examples of how it would be used.

Send your completed assignment as a ZIP file or preferably a link to Github or Bitbucket repository. Treat this assignment as though we were going to potentially push this code to production.

```
// start program, waiting for command
> java Main ...
ready

// show current state in total and each denomination:
// $Total #$20 #$10 #$5 #$2 #$1
// for example $68 1 2 3 4 5 means:
// Total=$68 $20x1 $10x2 $5x3 $2x4 $1x5
> show
$68 1 2 3 4 5

// put bills in each denomination: #$20 #$10 #$5 #$2 #$1
// show current state
> put 1 2 3 0 5
$128 2 4 6 4 10

// take bills in each denomination: #$20 #$10 #$5 #$2 #$1
// show current state
> take 1 4 3 0 10
$43 1 0 3 4 0

// given amount
```

```
// show change in each denomination: #$20 #$10 #$5 #$2 #$1
// and remove money from cash register
> change 11
0 0 1 3 0
> show
$32 1 0 2 1 0

// show error if there is insufficient fund or no change can be made
> change 14
sorry

// exit program
> quit
Bye
```