

```
1 #!/bin/sh
2
3 SODA_BASE_PRICE=100
4 payment=0
5 balance=0
6
7 price_variance=$(( ($RANDOM%7-3)*5 ))
8 soda_price=$((SODA_BASE_PRICE+$price_variance))
9 balance=$((soda_price-$payment))
10
11 clear
12 echo "Welcome to the soda machine.  You can enter values of 5, 10 or 25 in
... payment."
13 echo
14 read -p "What type of soda would you like? " soda_type
15 echo
16 echo "The current price of $soda_type is $soda_price cents"
17 echo
18
19 while true;
20 do
21     read -p "Enter a coin: " coin
22     if [[ $coin -eq 5 ]]; then
23         echo "You have inserted a nickel."
24     elif [[ $coin -eq 10 ]]; then
25         echo "You have inserted a dime."
26     elif [[ $coin -eq 25 ]]; then
27         echo "You have inserted a quarter."
28     else
29         echo "That is not a valid amount."
30         echo "You still owe $balance cents."
31         echo
32         continue
33     fi
34
35
36     payment=$(( $payment + $coin ))
37     balance=$(( $soda_price - $payment ))
38
39     if [[ $balance -gt 0 ]]; then
40         echo "You still owe $balance cents."
41         echo
42     elif [[ $balance -lt 0 ]]; then
43         refund=$(( $balance * -1 ))
44         echo
45         echo "You have been refunded $refund cents."
46         break
47     else
48         break
49     fi
50
```

```
51 done
52
53 echo
54 echo "Your $soda_type is being dispensed.  Thank you!"
55 echo
56 read -p "Press the enter key to close the script"
57 clear
58
```