

Tool Rental Test Cases

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1 Test Cases

1.1 Test Case 1 (PASS)

1.1.1 Checkout Terms

- Tool code: JAKR
- Checkout date: 9/3/15
- Rental Days: 5
- Discount: 101%

1.1.2 Input/Output

Tool Type	Brand	Tool Code
Ladder	Werner	LADW
Chainsaw	Stihl	CHNS
Jackhammer	Ridgid	JAKR
Jackhammer	Dewalt	JAKD

Please select which tool that you would like to use based off of tool code: JAKR
Please enter the date (MM/DD/YYYY) when you will CHECKOUT the item(s): 9/3/15

```
Please enter how many days you will checkout the item(s) for: 5
Please enter an optional discount percent (0 for no discount percent): 101
Discount percent must be within 0 and 100
Please enter an optional discount percent (0 for no discount percent):
```

1.1.3 Notes

As per the specification, the program does not allow a discount percent greater than 100 and in the case of this implementation, will keep prompting until a valid discount percent is entered.

1.2 Test Case 2 (PASS)

1.2.1 Checkout Terms

- Tool code: LADW
- Checkout date: 7/2/20
- Rental Days: 3
- Discount: 10%

1.2.2 Input/Output

```
Tool Type      Brand      Tool Code
Ladder         Werner     LADW
Chainsaw       Stihl      CHNS
Jackhammer     Ridgid     JAKR
Jackhammer     DeWalt     JAKD
Please select which tool that you would like to use based off of tool code: LADW
Please enter the date (MM/DD/YYYY) when you will CHECKOUT the item(s): 7/2/20
Please enter how many days you will checkout the item(s) for: 3
Please enter an optional discount percent (0 for no discount percent): 10
Tool code: LADW
Tool type: Ladder
Tool brand: Werner
Rental days: 3
Checkout date: 07-02-20
Due date: 07-05-20
Daily rental charge:
Wed 07-03-20: $1.99
Thu 07-04-20: $0.0
Fri 07-05-20: $1.99
Charge days: 2
Pre-discount charge: $3.98
Discount percent: 10%
Discount amount: $0.40
Final Charge: $3.58
```

1.2.3 Notes

As July 4th falls on a weekend, there is no rental charge for this weekday (holiday) for ladder.

1.3 Test Case 3 (PASS)

1.3.1 Checkout Terms

- Tool code: CHNS
- Checkout date: 7/2/15
- Rental Days: 5
- Discount: 25%

1.3.2 Input/Output

Tool Type	Brand	Tool Code
Ladder	Werner	LADW
Chainsaw	Stihl	CHNS
Jackhammer	Ridgid	JAKR
Jackhammer	DeWalt	JAKD

Please select which tool that you would like to use based off of tool code: CHNS
Please enter the date (MM/DD/YYYY) when you will CHECKOUT the item(s): 7/2/15
Please enter how many days you will checkout the item(s) for: 5
Please enter an optional discount percent (0 for no discount percent): 25
Tool code: CHNS
Tool type: Chainsaw
Tool brand: Stihl
Rental days: 5
Checkout date: 07-02-15
Due date: 07-07-15
Daily rental charge:
Wed 07-03-15: \$1.49
Thu 07-04-15: \$1.49
Fri 07-05-15: \$1.49
Sat 07-06-15: \$0.0
Sun 07-07-15: \$0.0
Charge days: 3
Pre-discount charge: \$4.47
Discount percent: 25%
Discount amount: \$1.12
Final Charge: \$3.35

1.3.3 Notes

For chainsaws, since there are only charges for weekends and holidays, there are no charges for Sat. and Sun.

1.4 Test Case 4 (PASS)

1.4.1 Checkout Terms

- Tool code: JAKD
- Checkout date: 9/3/15
- Rental Days: 6
- Discount: 0%

1.4.2 Input/Output

Tool Type	Brand	Tool Code
Ladder	Werner	LADW
Chainsaw	Stihl	CHNS
Jackhammer	Ridgid	JAKR
Jackhammer	DeWalt	JAKD

Please select which tool that you would like to use based off of tool code: JAKD
Please enter the date (MM/DD/YYYY) when you will CHECKOUT the item(s): 9/3/15

```
Please enter how many days you will checkout the item(s) for: 6
Please enter an optional discount percent (0 for no discount percent): 0
Tool code: JAKD
Tool type: Jackhammer
Tool brand: DeWalt
Rental days: 6
Checkout date: 09-03-15
Due date: 09-09-15
Daily rental charge:
Wed 09-04-15: $2.99
Thu 09-05-15: $2.99
Fri 09-06-15: $2.99
Sat 09-07-15: $0.0
Sun 09-08-15: $0.0
Mon 09-09-15: $2.99
Charge days: 4
Pre-discount charge: $11.96
Discount percent: 0%
Discount amount: $0.00
Final Charge: $11.96
```

1.4.3 Notes

For Jackhammer, since no holiday in date range and no charges on weekends.

1.5 Test Case 5 (PASS)

1.5.1 Checkout Terms

- Tool code: JAKR
- Checkout date: 7/2/15
- Rental Days: 9
- Discount: 0%

1.5.2 Input/Output

```
Tool Type      Brand      Tool Code
Ladder         Werner    LADW
Chainsaw       Stihl     CHNS
Jackhammer     Ridgid    JAKR
Jackhammer     DeWalt    JAKD
Please select which tool that you would like to use based off of tool code: JAKR
Please enter the date (MM/DD/YYYY) when you will CHECKOUT the item(s): 7/2/15
Please enter how many days you will checkout the item(s) for: 9
Please enter an optional discount percent (0 for no discount percent): 0
Tool code: JAKR
Tool type: Jackhammer
Tool brand: Ridgid
Rental days: 9
Checkout date: 07-02-15
Due date: 07-11-15
Daily rental charge:
Wed 07-03-15: $2.99
Thu 07-04-15: $0.0
Fri 07-05-15: $2.99
Sat 07-06-15: $0.0
Sun 07-07-15: $0.0
Mon 07-08-15: $2.99
```

```
Tue 07-09-15: $2.99
Wed 07-10-15: $2.99
Thu 07-11-15: $2.99
Charge days: 6
Pre-discount charge: $17.94
Discount percent: 0%
Discount amount: $0.00
Final Charge: $17.94
```

1.5.3 Notes

Note that the 4th of July falls on a weekday and no charges on weekends as per requirements.

1.6 Test Case 6 (PASS)

1.6.1 Checkout Terms

- Tool code: JAKR
- Checkout date: 7/2/20
- Rental Days: 4
- Discount: 50%

1.6.2 Input/Output

```
Tool Type      Brand      Tool Code
Ladder         Werner     LADW
Chainsaw       Stihl      CHNS
Jackhammer     Ridgid     JAKR
Jackhammer     DeWalt     JAKD
Please select which tool that you would like to use based off of tool code: JAKR
Please enter the date (MM/DD/YYYY) when you will CHECKOUT the item(s): 7/2/20
Please enter how many days you will checkout the item(s) for: 4
Please enter an optional discount percent (0 for no discount percent): 50
Tool code: JAKR
Tool type: Jackhammer
Tool brand: Ridgid
Rental days: 4
Checkout date: 07-02-20
Due date: 07-06-20
Daily rental charge:
Wed 07-03-20: $2.99
Thu 07-04-20: $0.0
Fri 07-05-20: $2.99
Sat 07-06-20: $0.0
Charge days: 2
Pre-discount charge: $5.98
Discount percent: 50%
Discount amount: $2.99
Final Charge: $2.99
```

1.6.3 Notes

Correct charges as per requirements

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