

use yellow highlight for input and turquoise highlight for output.

Start the program

```
FIND age>20
```

Nothing should appear. Make sure program doesn't crash.

```
ADD 1000 Smith,John 21
```

```
    ADD      1002  "Dan Foo" 18
```

```
FIND age < 30
```

```
1000  Smith,John  21
```

```
1002  Dan Foo    18
```

```
ADD 2211 Mary 021
```

```
FIND id>1000
```

```
1002  Dan Foo    18
```

```
2211  Mary       21
```

We don't mind that the leading zero in the age of Mary has disappeared because it doesn't affect the number.

```
FIND      age= 21
```

```
1000  Smith,John  21
```

```
2211  Mary        21
```

```
find age = 21
```

```
bad command!!!
```

Our input is case-sensitive so "find" isn't equal to "FIND". It is an unknown command.

```
ADD 1020 "Woody"Woodpecker" 15
```

```
bad command!!!
```

Another bad command. Name rules are broken.

```
FIND age<20
```

```
1002  Dan Foo    18
```

Make sure the previous ADD was ignored and Woody Woodpecker doesn't appear in the output at all.

```
STOP
```

The program should stop running.

Start the program again.

```
FIND name=Mary
```

```
2211  Mary        21
```

```
ADD 300  "  Mary Green" 50
```

FIND name=Mary

2211 Mary 21

ADD 5678 "Mary" 34

FIND name=Mary

2211 Mary 21

5678 Mary 34

FIND age>000

1000 Smith,John 21

1002 Dan Foo 18

2211 Mary 21

300 Mary Green 50

5678 Mary 34

REMOVE age = 21

FIND age>000

1002 Dan Foo 18

300 Mary Green 50

5678 Mary 34

REMOVE id<100p

bad command!!!

Token 100p makes no sense here. In this context we expect to see purely numerical token.

REMOVE id<=1000

bad command!!!

Token <= makes no sense here. We know tokens < and =, but <= is unknown.

STOP

The program should stop running.

Start the program again.

FIND age>0

1002 Dan Foo 18

300 Mary Green 50

5678 Mary 34

REMOVE name = Mary Green

bad command!!!

Since Mary Green was written without "", Green is considered a separate token that doesn't make sense in this command.

```
FIND age>000
```

```
1002  Dan Foo    18
300   Mary Green  50
5678  Mary   34
```

Make Mary with id 5678 is still here and wasn't removed by previous bad command.

```
REMOVE name = "  Mary Green"
```

```
FIND age>0
```

```
1002  Dan Foo    18
300   Mary Green  50
5678  Mary   34
```

Mary Green still isn't removed because all the spaces inside "" are considered a part of the name.

```
REMOVE name = "Mary   Green"
```

```
FIND age>0
```

```
1002  Dan Foo    18
5678  Mary   34
```

```
STOP
```

The program should stop running.