

Test Design Scenarios

```
const functions = {  
  sum: (a,b) => {  
    return a + b  
  },  
  subtract: (a,b) => {  
    return a - b  
  },  
  multiply: (a,b) => {  
    return a * b  
  },  
  divide: (a,b) => {  
    return a / b  
  }  
}
```

List of different test scenarios:

Function	A	B	Result
Sum	1	2	3
Subtract	2	1	1
Multiply	4	4	16
Divide	4	2	2
Divide	2	0	Infinity
Sum	100	"10"	"10010"
Subtract	100	"Test"	NaN
Multiply	100	"Test"	NaN
Divide	100	"Test"	NaN
Sum	"100"	"10"	"10010"
Subtract	"100"	"10"	90
Multiply	"100"	"10"	1000
Divide	"100"	"10"	10
Sum	"Test"	"Test"	"TestTest"

Subtract	"Test"	"Test"	NaN
Multiply	"Test"	"Test"	NaN
Divide	"Test"	"Test"	NaN

Test Scenario

```
function canRentCar(age: number, cardBalance: number, hasDrivingLicense: boolean) :
boolean {
...
}
```

Criteria:

Only People who meet all the following criteria qualify to rent a car:

- You must have a valid driving license
- You must be older than 16 and younger than 100
- You must have at least \$1000 USD available on credit card

Age	Card Balance	Drivers License	Result
17	1000	Yes	True
17	999.99	Yes	False
17	1000	No	False
16	1000	Yes	False
100	1000	Yes	False
99	1000	Yes	True
99	999.99	Yes	False
99	1000	No	False