**1)**

How many sides do you want for the first dice?

6

How many sides do you want for the second dice?

6

How many times do you want to roll the die?

8

Loaded Dice: The true value was 5.

Loaded Dice: The value to be shown is 5.

Loaded Dice: The dice has been rolled 1 time.

Loaded Dice: The cumulative score is 5.

Fair Dice: The value of the latest roll was 1.

Fair Dice: The dice has been rolled 1 time.

Fair Dice: The cumulative score is 1.

Loaded Dice: The true value was 1.

Loaded Dice: The value to be shown is 2.

Loaded Dice: The dice has been rolled 2 times

Loaded Dice: The cumulative score is 7.

Fair Dice: The value of the latest roll was 1.

Fair Dice: The dice has been rolled 2 times.

Fair Dice: The cumulative score is 2.

Loaded Dice: The true value was 2.

Loaded Dice: The value to be shown is 4.

Loaded Dice: The dice has been rolled 3 times.

Loaded Dice: The cumulative score is 11.

Fair Dice: The value of the latest roll was 1.

Fair Dice: The dice has been rolled 3 times

Fair Dice: The cumulative score is 3.

Loaded Dice: The true value was 2.

Loaded Dice: The value to be shown is 4.

Loaded Dice: The dice has been rolled 4 times.

Loaded Dice: The cumulative score is 15.

Fair Dice: The value of the latest roll was 6.

Fair Dice: The dice has been rolled 4 times.

Fair Dice: The cumulative score is 9.

Loaded Dice: The true value was 3.

Loaded Dice: The value to be shown is 6.

Loaded Dice: The dice has been rolled 5 times.

Loaded Dice: The cumulative score is 21.

Fair Dice: The value of the latest roll was 4.

Fair Dice: The dice has been rolled 5 times.

Fair Dice: The cumulative score is 13.

Loaded Dice: The true value was 2.

Loaded Dice: The value to be shown is 4.

Loaded Dice: The dice has been rolled 6 times.

Loaded Dice: The cumulative score is 25.

Fair Dice: The value of the latest roll was 4.

Fair Dice: The dice has been rolled 6 times.

Fair Dice: The cumulative score is 17.

Loaded Dice: The true value was 3.

Loaded Dice: The value to be shown is 6.

Loaded Dice: The dice has been rolled 7 times.

Loaded Dice: The cumulative score is 31.

Fair Dice: The value of the latest roll was 3.

Fair Dice: The dice has been rolled 7 times.

Fair Dice: The cumulative score is 20.

Loaded Dice: The true value was 1.

Loaded Dice: The value to be shown is 2.

Loaded Dice: The dice has been rolled 8 times.

Loaded Dice: The cumulative score is 33.

Fair Dice: The value of the latest roll was 1.

Fair Dice: The dice has been rolled 8 times.

Fair Dice: The cumulative score is 21.

**Fair Dice: The total average score is 2.625**

**Loaded Dice: The total average score is 4.125**

**2)**

How many sides do you want for the first dice?

6

How many sides do you want for the second dice?

6

How many times do you want to roll the die?

7

Loaded Dice: The true value was 4.

Loaded Dice: The value to be shown is 4.

Loaded Dice: The dice has been rolled 1 time(s).

Loaded Dice: The cumulative score is 4.

Fair Dice: The value of the latest roll was 3.

Fair Dice: The dice has been rolled 1 time(s).

Fair Dice: The cumulative score is 3.

Loaded Dice: The true value was 4.

Loaded Dice: The value to be shown is 4.

Loaded Dice: The dice has been rolled 2 time(s).

Loaded Dice: The cumulative score is 8.

Fair Dice: The value of the latest roll was 2.

Fair Dice: The dice has been rolled 2 time(s).

Fair Dice: The cumulative score is 5.

Loaded Dice: The true value was 6.

Loaded Dice: The value to be shown is 6.

Loaded Dice: The dice has been rolled 3 time(s).

Loaded Dice: The cumulative score is 14.

Fair Dice: The value of the latest roll was 2.

Fair Dice: The dice has been rolled 3 time(s).

Fair Dice: The cumulative score is 7.

Loaded Dice: The true value was 5.

Loaded Dice: The value to be shown is 5.

Loaded Dice: The dice has been rolled 4 time(s).

Loaded Dice: The cumulative score is 19.

Fair Dice: The value of the latest roll was 5.

Fair Dice: The dice has been rolled 4 time(s).

Fair Dice: The cumulative score is 12.

Loaded Dice: The true value was 4.

Loaded Dice: The value to be shown is 4.

Loaded Dice: The dice has been rolled 5 time(s).

Loaded Dice: The cumulative score is 23.

Fair Dice: The value of the latest roll was 6.

Fair Dice: The dice has been rolled 5 time(s).

Fair Dice: The cumulative score is 18.

Loaded Dice: The true value was 1.

Loaded Dice: The value to be shown is 2.

Loaded Dice: The dice has been rolled 6 time(s).

Loaded Dice: The cumulative score is 25.

Fair Dice: The value of the latest roll was 5.

Fair Dice: The dice has been rolled 6 time(s).

Fair Dice: The cumulative score is 23.

Loaded Dice: The true value was 3.

Loaded Dice: The value to be shown is 6.

Loaded Dice: The dice has been rolled 7 time(s).

Loaded Dice: The cumulative score is 31.

Fair Dice: The value of the latest roll was 4.

Fair Dice: The dice has been rolled 7 time(s).

Fair Dice: The cumulative score is 27.

**Fair Dice: The total average score is 3.85714**

**Loaded Dice: The total average score is 4.42857**

**3)**

How many sides do you want for the first dice?

6

How many sides do you want for the second dice?

6

How many times do you want to roll the die?

6

Loaded Dice: The true value was 5.

Loaded Dice: The value to be shown is 5.

Loaded Dice: The dice has been rolled 1 time(s).

Loaded Dice: The cumulative score is 5.

Fair Dice: The value of the latest roll was 4.

Fair Dice: The dice has been rolled 1 time(s).

Fair Dice: The cumulative score is 4.

Loaded Dice: The true value was 3.

Loaded Dice: The value to be shown is 6.

Loaded Dice: The dice has been rolled 2 time(s).

Loaded Dice: The cumulative score is 11.

Fair Dice: The value of the latest roll was 2.

Fair Dice: The dice has been rolled 2 time(s).

Fair Dice: The cumulative score is 6.

Loaded Dice: The true value was 6.

Loaded Dice: The value to be shown is 6.

Loaded Dice: The dice has been rolled 3 time(s).

Loaded Dice: The cumulative score is 17.

Fair Dice: The value of the latest roll was 4.

Fair Dice: The dice has been rolled 3 time(s).

Fair Dice: The cumulative score is 10.

Loaded Dice: The true value was 2.

Loaded Dice: The value to be shown is 4.

Loaded Dice: The dice has been rolled 4 time(s).

Loaded Dice: The cumulative score is 21.

Fair Dice: The value of the latest roll was 6.

Fair Dice: The dice has been rolled 4 time(s).

Fair Dice: The cumulative score is 16.

Loaded Dice: The true value was 1.

Loaded Dice: The value to be shown is 2.

Loaded Dice: The dice has been rolled 5 time(s).

Loaded Dice: The cumulative score is 23.

Fair Dice: The value of the latest roll was 6.

Fair Dice: The dice has been rolled 5 time(s).

Fair Dice: The cumulative score is 22.

Loaded Dice: The true value was 1.

Loaded Dice: The value to be shown is 2.

Loaded Dice: The dice has been rolled 6 time(s).

Loaded Dice: The cumulative score is 25.

Fair Dice: The value of the latest roll was 1.

Fair Dice: The dice has been rolled 6 time(s).

Fair Dice: The cumulative score is 23.

**Fair Dice: The total average score is 3.83333**

**Loaded Dice: The total average score is 4.16667**

**4)**

How many sides do you want for the first dice?

8

How many sides do you want for the second dice?

6

How many times do you want to roll the die?

4

Loaded Dice: The true value was 2.

Loaded Dice: The value to be shown is 4.

Loaded Dice: The dice has been rolled 1 time(s).

Loaded Dice: The cumulative score is 4.

Fair Dice: The value of the latest roll was 1.

Fair Dice: The dice has been rolled 1 time(s).

Fair Dice: The cumulative score is 1.

Loaded Dice: The true value was 2.

Loaded Dice: The value to be shown is 4.

Loaded Dice: The dice has been rolled 2 time(s).

Loaded Dice: The cumulative score is 8.

Fair Dice: The value of the latest roll was 3.

Fair Dice: The dice has been rolled 2 time(s).

Fair Dice: The cumulative score is 4.

Loaded Dice: The true value was 4.

Loaded Dice: The value to be shown is 4.

Loaded Dice: The dice has been rolled 3 time(s).

Loaded Dice: The cumulative score is 12.

Fair Dice: The value of the latest roll was 1.

Fair Dice: The dice has been rolled 3 time(s).

Fair Dice: The cumulative score is 5.

Loaded Dice: The true value was 2.

Loaded Dice: The value to be shown is 4.

Loaded Dice: The dice has been rolled 4 time(s).

Loaded Dice: The cumulative score is 16.

Fair Dice: The value of the latest roll was 1.

Fair Dice: The dice has been rolled 4 time(s).

Fair Dice: The cumulative score is 6.

**Fair Dice: The total average score is 1.5**

**Loaded Dice: The total average score is 4**

**5) Fair dice is higher**

How many sides do you want for the first dice?

8

How many sides do you want for the second dice?

6

How many times do you want to roll the die?

4

Loaded Dice: The true value was 5.

Loaded Dice: The value to be shown is 5.

Loaded Dice: The dice has been rolled 1 time(s).

Loaded Dice: The cumulative score is 5.

Fair Dice: The value of the latest roll was 7.

Fair Dice: The dice has been rolled 1 time(s).

Fair Dice: The cumulative score is 7.

Loaded Dice: The true value was 3.

Loaded Dice: The value to be shown is 6.

Loaded Dice: The dice has been rolled 2 time(s).

Loaded Dice: The cumulative score is 11.

Fair Dice: The value of the latest roll was 5.

Fair Dice: The dice has been rolled 2 time(s).

Fair Dice: The cumulative score is 12.

Loaded Dice: The true value was 1.

Loaded Dice: The value to be shown is 2.

Loaded Dice: The dice has been rolled 3 time(s).

Loaded Dice: The cumulative score is 13.

Fair Dice: The value of the latest roll was 6.

Fair Dice: The dice has been rolled 3 time(s).

Fair Dice: The cumulative score is 18.

Loaded Dice: The true value was 4.

Loaded Dice: The value to be shown is 4.

Loaded Dice: The dice has been rolled 4 time(s).

Loaded Dice: The cumulative score is 17.

Fair Dice: The value of the latest roll was 6.

Fair Dice: The dice has been rolled 4 time(s).

Fair Dice: The cumulative score is 24.

**Fair Dice: The total average score is 6**

**Loaded Dice: The total average score is 4.25**

6)

How many sides do you want for the FAIR dice?

6

How many sides do you want for the LOADED dice?

4

How many times do you want to roll the die?

4

Loaded Dice: The true value was 2.

Loaded Dice: The value to be shown is 4.

Loaded Dice: The dice has been rolled 1 time(s).

Loaded Dice: The cumulative score is 4.

Fair Dice: The value of the latest roll was 5.

Fair Dice: The dice has been rolled 1 time(s).

Fair Dice: The cumulative score is 5.

Loaded Dice: The true value was 1.

Loaded Dice: The value to be shown is 2.

Loaded Dice: The dice has been rolled 2 time(s).

Loaded Dice: The cumulative score is 6.

Fair Dice: The value of the latest roll was 1.

Fair Dice: The dice has been rolled 2 time(s).

Fair Dice: The cumulative score is 6.

Loaded Dice: The true value was 1.

Loaded Dice: The value to be shown is 2.

Loaded Dice: The dice has been rolled 3 time(s).

Loaded Dice: The cumulative score is 8.

Fair Dice: The value of the latest roll was 6.

Fair Dice: The dice has been rolled 3 time(s).

Fair Dice: The cumulative score is 12.

Loaded Dice: The true value was 4.

Loaded Dice: The value to be shown is 4.

Loaded Dice: The dice has been rolled 4 time(s).

Loaded Dice: The cumulative score is 12.

Fair Dice: The value of the latest roll was 5.

Fair Dice: The dice has been rolled 4 time(s).

Fair Dice: The cumulative score is 17.

**Fair Dice: The total average score is 4.25**

**Loaded Dice: The total average score is 3**

7) They are tie!!

How many sides do you want for the FAIR dice?

6

How many sides do you want for the LOADED dice?

3

How many times do you want to roll the die?

5

Loaded Dice: The true value was 3.

Loaded Dice: The value to be shown is 3.

Loaded Dice: The dice has been rolled 1 time(s).

Loaded Dice: The cumulative score is 3.

Fair Dice: The value of the latest roll was 3.

Fair Dice: The dice has been rolled 1 time(s).

Fair Dice: The cumulative score is 3.

Loaded Dice: The true value was 1.

Loaded Dice: The value to be shown is 2.

Loaded Dice: The dice has been rolled 2 time(s).

Loaded Dice: The cumulative score is 5.

Fair Dice: The value of the latest roll was 2.

Fair Dice: The dice has been rolled 2 time(s).

Fair Dice: The cumulative score is 5.

Loaded Dice: The true value was 1.

Loaded Dice: The value to be shown is 2.

Loaded Dice: The dice has been rolled 3 time(s).

Loaded Dice: The cumulative score is 7.

Fair Dice: The value of the latest roll was 1.

Fair Dice: The dice has been rolled 3 time(s).

Fair Dice: The cumulative score is 6.

Loaded Dice: The true value was 3.

Loaded Dice: The value to be shown is 3.

Loaded Dice: The dice has been rolled 4 time(s).

Loaded Dice: The cumulative score is 10.

Fair Dice: The value of the latest roll was 4.

Fair Dice: The dice has been rolled 4 time(s).

Fair Dice: The cumulative score is 10.

Loaded Dice: The true value was 3.

Loaded Dice: The value to be shown is 3.

Loaded Dice: The dice has been rolled 5 time(s).

Loaded Dice: The cumulative score is 13.

Fair Dice: The value of the latest roll was 3.

Fair Dice: The dice has been rolled 5 time(s).

Fair Dice: The cumulative score is 13.

**Fair Dice: The total average score is 2.6**

**Loaded Dice: The total average score is 2.6**

How many sides do you want for the FAIR dice?

6

How many sides do you want for the LOADED dice?

6

How many times do you want to roll the die?

4

Loaded Dice: The true value was 2.

Loaded Dice: The value to be shown is 4.

Loaded Dice: The dice has been rolled 1 time(s).

Loaded Dice: The cumulative score is 4.

Fair Dice: The value of the latest roll was 3.

Fair Dice: The dice has been rolled 1 time(s).

Fair Dice: The cumulative score is 3.

Loaded Dice: The true value was 5.

Loaded Dice: The value to be shown is 5.

Loaded Dice: The dice has been rolled 2 time(s).

Loaded Dice: The cumulative score is 9.

Fair Dice: The value of the latest roll was 2.

Fair Dice: The dice has been rolled 2 time(s).

Fair Dice: The cumulative score is 5.

Loaded Dice: The true value was 5.

Loaded Dice: The value to be shown is 5.

Loaded Dice: The dice has been rolled 3 time(s).

Loaded Dice: The cumulative score is 14.

Fair Dice: The value of the latest roll was 5.

Fair Dice: The dice has been rolled 3 time(s).

Fair Dice: The cumulative score is 10.

Loaded Dice: The true value was 1.

Loaded Dice: The value to be shown is 2.

Loaded Dice: The dice has been rolled 4 time(s).

Loaded Dice: The cumulative score is 16.

Fair Dice: The value of the latest roll was 2.

Fair Dice: The dice has been rolled 4 time(s).

Fair Dice: The cumulative score is 12.

Fair Dice: The total average score is 3

Loaded Dice: The total average score is 4

Fastbook:Code\_Lab1 cacarrilloc$ g++ Die.cpp LoadedDie.cpp MainDie.cpp -o die

Fastbook:Code\_Lab1 cacarrilloc$ ./die

How many sides do you want for the FAIR dice?

8

How many sides do you want for the LOADED dice?

23

How many times do you want to roll the die?

5

Loaded Dice: The true value was 10.

Loaded Dice: The value to be shown is 20.

Loaded Dice: The dice has been rolled 1 time(s).

Loaded Dice: The cumulative score is 20.

Fair Dice: The value of the latest roll was 1.

Fair Dice: The dice has been rolled 1 time(s).

Fair Dice: The cumulative score is 1.

Loaded Dice: The true value was 22.

Loaded Dice: The value to be shown is 22.

Loaded Dice: The dice has been rolled 2 time(s).

Loaded Dice: The cumulative score is 42.

Fair Dice: The value of the latest roll was 5.

Fair Dice: The dice has been rolled 2 time(s).

Fair Dice: The cumulative score is 6.

Loaded Dice: The true value was 12.

Loaded Dice: The value to be shown is 12.

Loaded Dice: The dice has been rolled 3 time(s).

Loaded Dice: The cumulative score is 54.

Fair Dice: The value of the latest roll was 6.

Fair Dice: The dice has been rolled 3 time(s).

Fair Dice: The cumulative score is 12.

Loaded Dice: The true value was 21.

Loaded Dice: The value to be shown is 21.

Loaded Dice: The dice has been rolled 4 time(s).

Loaded Dice: The cumulative score is 75.

Fair Dice: The value of the latest roll was 6.

Fair Dice: The dice has been rolled 4 time(s).

Fair Dice: The cumulative score is 18.

Loaded Dice: The true value was 9.

Loaded Dice: The value to be shown is 18.

Loaded Dice: The dice has been rolled 5 time(s).

Loaded Dice: The cumulative score is 93.

Fair Dice: The value of the latest roll was 2.

Fair Dice: The dice has been rolled 5 time(s).

Fair Dice: The cumulative score is 20.

Fair Dice: The total average score is 4

Loaded Dice: The total average score is 18.6

Fastbook:Code\_Lab1 cacarrilloc$ ./die

How many sides do you want for the FAIR dice?

5

How many sides do you want for the LOADED dice?

10

How many times do you want to roll the die?

5

Loaded Dice: The true value was 3.

Loaded Dice: The value to be shown is 6.

Loaded Dice: The dice has been rolled 1 time(s).

Loaded Dice: The cumulative score is 6.

Fair Dice: The value of the latest roll was 1.

Fair Dice: The dice has been rolled 1 time(s).

Fair Dice: The cumulative score is 1.

Loaded Dice: The true value was 3.

Loaded Dice: The value to be shown is 6.

Loaded Dice: The dice has been rolled 2 time(s).

Loaded Dice: The cumulative score is 12.

Fair Dice: The value of the latest roll was 4.

Fair Dice: The dice has been rolled 2 time(s).

Fair Dice: The cumulative score is 5.

Loaded Dice: The true value was 9.

Loaded Dice: The value to be shown is 9.

Loaded Dice: The dice has been rolled 3 time(s).

Loaded Dice: The cumulative score is 21.

Fair Dice: The value of the latest roll was 4.

Fair Dice: The dice has been rolled 3 time(s).

Fair Dice: The cumulative score is 9.

Loaded Dice: The true value was 2.

Loaded Dice: The value to be shown is 4.

Loaded Dice: The dice has been rolled 4 time(s).

Loaded Dice: The cumulative score is 25.

Fair Dice: The value of the latest roll was 5.

Fair Dice: The dice has been rolled 4 time(s).

Fair Dice: The cumulative score is 14.

Loaded Dice: The true value was 7.

Loaded Dice: The value to be shown is 7.

Loaded Dice: The dice has been rolled 5 time(s).

Loaded Dice: The cumulative score is 32.

Fair Dice: The value of the latest roll was 1.

Fair Dice: The dice has been rolled 5 time(s).

Fair Dice: The cumulative score is 15.

Fair Dice: The total average score is 3

Loaded Dice: The total average score is 6.4

Fastbook:Code\_Lab1 cacarrilloc$ ./die

How many sides do you want for the FAIR dice?

10

How many sides do you want for the LOADED dice?

5

How many times do you want to roll the die?

5

Loaded Dice: The true value was 4.

Loaded Dice: The value to be shown is 4.

Loaded Dice: The dice has been rolled 1 time(s).

Loaded Dice: The cumulative score is 4.

Fair Dice: The value of the latest roll was 6.

Fair Dice: The dice has been rolled 1 time(s).

Fair Dice: The cumulative score is 6.

Loaded Dice: The true value was 4.

Loaded Dice: The value to be shown is 4.

Loaded Dice: The dice has been rolled 2 time(s).

Loaded Dice: The cumulative score is 8.

Fair Dice: The value of the latest roll was 7.

Fair Dice: The dice has been rolled 2 time(s).

Fair Dice: The cumulative score is 13.

Loaded Dice: The true value was 1.

Loaded Dice: The value to be shown is 2.

Loaded Dice: The dice has been rolled 3 time(s).

Loaded Dice: The cumulative score is 10.

Fair Dice: The value of the latest roll was 8.

Fair Dice: The dice has been rolled 3 time(s).

Fair Dice: The cumulative score is 21.

Loaded Dice: The true value was 2.

Loaded Dice: The value to be shown is 4.

Loaded Dice: The dice has been rolled 4 time(s).

Loaded Dice: The cumulative score is 14.

Fair Dice: The value of the latest roll was 10.

Fair Dice: The dice has been rolled 4 time(s).

Fair Dice: The cumulative score is 31.

Loaded Dice: The true value was 4.

Loaded Dice: The value to be shown is 4.

Loaded Dice: The dice has been rolled 5 time(s).

Loaded Dice: The cumulative score is 18.

Fair Dice: The value of the latest roll was 6.

Fair Dice: The dice has been rolled 5 time(s).

Fair Dice: The cumulative score is 37.

Fair Dice: The total average score is 7.4

Loaded Dice: The total average score is 3.6