

Beatriz Manrique

n = 100

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Beatriz@DESKTOP-MQQNMN9 MINGW64 /c/Users/Beatriz/Documents/Algorithms/CSE-3353/Project1 (master)
$ time node ChanceData.js

real    0m0.418s
user    0m0.015s
sys     0m0.031s

Beatriz@DESKTOP-MQQNMN9 MINGW64 /c/Users/Beatriz/Documents/Algorithms/CSE-3353/Project1 (master)
$ time node BruteForce.js
Flight One: LK1035 is located at X:8.1396, Y:7.2549, Heading: 217.0706°.
Flight Two: XX0453 is located at X:8.0487, Y:7.2626, Heading: 145.1572°.
Distance between flights: 0.09122554466814606
Flight One and Flight Two will collide.

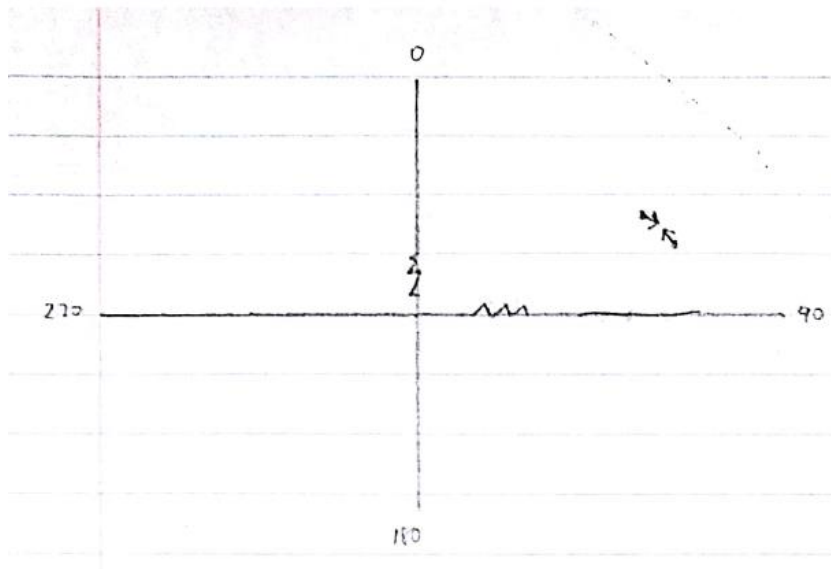
real    0m0.422s
user    0m0.000s
sys     0m0.077s

Beatriz@DESKTOP-MQQNMN9 MINGW64 /c/Users/Beatriz/Documents/Algorithms/CSE-3353/Project1 (master)
$ time node BruteForceModified.js
Flight One: LK1035 is located at X:8.1396, Y:7.2549, Heading: 217.0706°.
Flight Two: XX0453 is located at X:8.0487, Y:7.2626, Heading: 145.1572°.
Distance between flights: 0.09122554466814606
Flight One and Flight Two will collide.

real    0m0.381s
user    0m0.015s
sys     0m0.031s

Beatriz@DESKTOP-MQQNMN9 MINGW64 /c/Users/Beatriz/Documents/Algorithms/CSE-3353/Project1 (master)
$ time node RecursiveSolution.js
0.09122554466814606

real    0m0.427s
user    0m0.000s
sys     0m0.077s
```



n = 1000

```
Beatriz@DESKTOP-MQONMN9 MINGW64 /c/Users/Beatriz/Documents/Algorithms/CSE-3353/Project1 (master)
$ time node ChanceData.js

real    0m0.532s
user    0m0.015s
sys     0m0.030s

Beatriz@DESKTOP-MQONMN9 MINGW64 /c/Users/Beatriz/Documents/Algorithms/CSE-3353/Project1 (master)
$ time node BruteForce.js
Flight One: JU8672 is located at X:6.5106, Y:-4.7589, Heading: 296.8395°.
Flight Two: UG2629 is located at X:6.5163, Y:-4.7683, Heading: 184.2583°.
Distance between flights: 0.010993179703798444
Flight One and Flight Two will not collide.

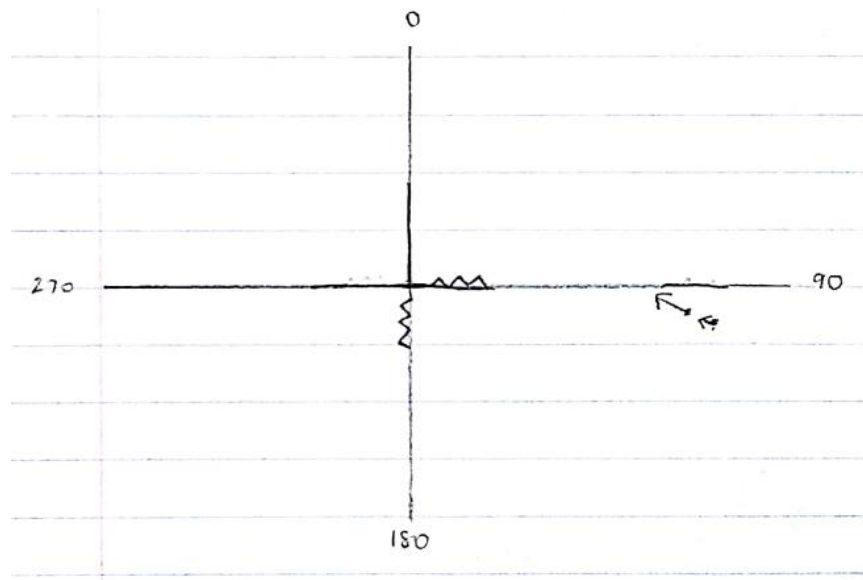
real    0m0.477s
user    0m0.000s
sys     0m0.061s

Beatriz@DESKTOP-MQONMN9 MINGW64 /c/Users/Beatriz/Documents/Algorithms/CSE-3353/Project1 (master)
$ time node BruteForceModified.js
Flight One: UG2629 is located at X:6.5163, Y:-4.7683, Heading: 184.2583°.
Flight Two: JU8672 is located at X:6.5106, Y:-4.7589, Heading: 296.8395°.
Distance between flights: 0.010993179703798444
Flight One and Flight Two will not collide.

real    0m0.470s
user    0m0.000s
sys     0m0.061s

Beatriz@DESKTOP-MQONMN9 MINGW64 /c/Users/Beatriz/Documents/Algorithms/CSE-3353/Project1 (master)
$ time node RecursiveSolution.js
0.010993179703798444

real    0m0.513s
user    0m0.046s
sys     0m0.031s
```



$n = 10,000$

```
Beatriz@DESKTOP-MQONMN9 MINGW64 /c/Users/Beatriz/Documents/Algorithms/CSE-3353/Project1 (master)
$ time node ChanceData.js

real    0m0.638s
user    0m0.000s
sys     0m0.046s

Beatriz@DESKTOP-MQONMN9 MINGW64 /c/Users/Beatriz/Documents/Algorithms/CSE-3353/Project1 (master)
$ time node BruteForce.js
Flight One: IU3891 is located at X:3.3207, Y:2.6381, Heading: 109.0059°.
Flight Two: KW8740 is located at X:3.3208, Y:2.6381, Heading: 316.748°.
Distance between flights: 0.000100000000000021103
Flight One and Flight Two will not collide.

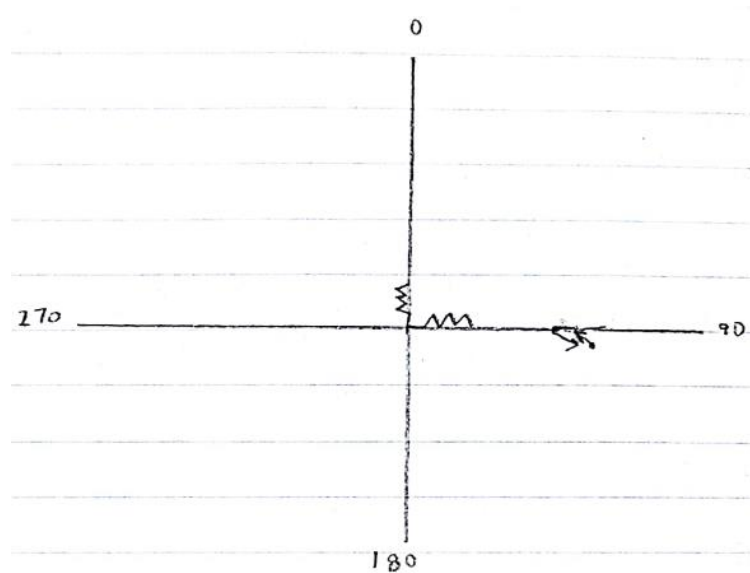
real    0m0.881s
user    0m0.015s
sys     0m0.061s

Beatriz@DESKTOP-MQONMN9 MINGW64 /c/Users/Beatriz/Documents/Algorithms/CSE-3353/Project1 (master)
$ time node BruteForceModified.js
Flight One: KW8740 is located at X:3.3208, Y:2.6381, Heading: 316.748°.
Flight Two: IU3891 is located at X:3.3207, Y:2.6381, Heading: 109.0059°.
Distance between flights: 0.000100000000000021103
Flight One and Flight Two will not collide.

real    0m0.481s
user    0m0.031s
sys     0m0.031s

Beatriz@DESKTOP-MQONMN9 MINGW64 /c/Users/Beatriz/Documents/Algorithms/CSE-3353/Project1 (master)
$ time node RecursiveSolution.js
0.000100000000000021103

real    0m0.556s
user    0m0.031s
sys     0m0.015s
```



$n = 25,000$

```
Beatriz@DESKTOP-MQQNMN9 MINGW64 /c/Users/Beatriz/Documents/Algorithms/CSE-3353/Project1 (master)
$ time node ChanceData.js

real    0m0.815s
user    0m0.000s
sys     0m0.046s

Beatriz@DESKTOP-MQQNMN9 MINGW64 /c/Users/Beatriz/Documents/Algorithms/CSE-3353/Project1 (master)
$ time node BruteForce.js
Flight One: NR6217 is located at X:9.2344, Y:-1.8159, Heading: 181.3765°.
Flight Two: ZW7198 is located at X:9.2348, Y:-1.8159, Heading: 355.3098°.
Distance between flights: 0.000399999999999906777
Flight One and Flight Two will not collide.

real    0m3.210s
user    0m0.000s
sys     0m0.062s

Beatriz@DESKTOP-MQQNMN9 MINGW64 /c/Users/Beatriz/Documents/Algorithms/CSE-3353/Project1 (master)
$ time node BruteForceModified.js
Flight One: ZW7198 is located at X:9.2348, Y:-1.8159, Heading: 355.3098°.
Flight Two: NR6217 is located at X:9.2344, Y:-1.8159, Heading: 181.3765°.
Distance between flights: 0.000399999999999906777
Flight One and Flight Two will not collide.

real    0m0.575s
user    0m0.000s
sys     0m0.046s

Beatriz@DESKTOP-MQQNMN9 MINGW64 /c/Users/Beatriz/Documents/Algorithms/CSE-3353/Project1 (master)
$ time node RecursiveSolution.js
0.000399999999999906777

real    0m0.621s
user    0m0.015s
sys     0m0.061s
```

