Sample output from my solution to Problem #1:
(yours should match the format: the times depend on your machine's speed).

```
closest_2d, size = 1000
Analysis of 5 timings
avg = 0.026   min = 0.025  max = 0.027  span = 8.4%

   Time Ranges
2.50e-02<>2.52e-02[ 20.0%]|************************************************
2.52e-02<>2.54e-02[  0.0%]|
2.54e-02<>2.56e-02[ 20.0%]|************************************************
2.56e-02<>2.59e-02[  0.0%]|
2.59e-02<>2.61e-02[  0.0%]|
2.61e-02<>2.63e-02[  0.0%]|A
2.63e-02<>2.65e-02[ 20.0%]|************************************************
2.65e-02<>2.68e-02[  0.0%]|
2.68e-02<>2.70e-02[  0.0%]|
2.70e-02<>2.72e-02[ 20.0%]|************************************************
2.72e-02<>2.74e-02[ 20.0%]|************************************************

closest_2d, size = 2000
Analysis of 5 timings
avg = 0.055   min = 0.055  max = 0.057  span = 3.9%

   Time Ranges
5.45e-02<>5.47e-02[ 40.0%]|************************************************
5.47e-02<>5.49e-02[  0.0%]|
5.49e-02<>5.52e-02[  0.0%]|
5.52e-02<>5.54e-02[ 40.0%]|************************************************A
5.54e-02<>5.56e-02[  0.0%]|
5.56e-02<>5.58e-02[  0.0%]|
5.58e-02<>5.60e-02[  0.0%]|
5.60e-02<>5.62e-02[  0.0%]|
5.62e-02<>5.64e-02[  0.0%]|
5.64e-02<>5.67e-02[  0.0%]|
5.67e-02<>5.69e-02[ 20.0%]|************************

closest_2d, size = 4000
Analysis of 5 timings
avg = 0.115   min = 0.114  max = 0.116  span = 2.2%

   Time Ranges
1.14e-01<>1.14e-01[ 20.0%]|************************************************
1.14e-01<>1.14e-01[  0.0%]|
1.14e-01<>1.15e-01[  0.0%]|
1.15e-01<>1.15e-01[ 20.0%]|************************************************
1.15e-01<>1.15e-01[  0.0%]|
1.15e-01<>1.15e-01[  0.0%]|
1.15e-01<>1.16e-01[  0.0%]|A
1.16e-01<>1.16e-01[ 20.0%]|************************************************
1.16e-01<>1.16e-01[  0.0%]|
1.16e-01<>1.16e-01[ 20.0%]|************************************************
1.16e-01<>1.17e-01[ 20.0%]|************************************************

closest_2d, size = 8000
Analysis of 5 timings
avg = 0.251   min = 0.246  max = 0.257  span = 4.4%

   Time Ranges
2.46e-01<>2.47e-01[ 40.0%]|************************************************
```

```
2.47e-01<>2.48e-01[  0.0%]|
2.48e-01<>2.49e-01[  0.0%]|
2.49e-01<>2.51e-01[  0.0%]|
2.51e-01<>2.52e-01[ 20.0%]|************************A
2.52e-01<>2.53e-01[ 20.0%]|************************
2.53e-01<>2.54e-01[  0.0%]|
2.54e-01<>2.55e-01[  0.0%]|
2.55e-01<>2.56e-01[  0.0%]|
2.56e-01<>2.57e-01[  0.0%]|
2.57e-01<>2.58e-01[ 20.0%]|************************

closest_2d, size = 16000
Analysis of 5 timings
avg = 0.538   min = 0.532  max = 0.543  span = 2.1%

   Time Ranges
5.32e-01<>5.33e-01[ 20.0%]|************************************************
5.33e-01<>5.35e-01[ 20.0%]|************************************************
5.35e-01<>5.36e-01[  0.0%]|
5.36e-01<>5.37e-01[  0.0%]|
5.37e-01<>5.38e-01[  0.0%]|
5.38e-01<>5.39e-01[ 20.0%]|************************************************A
5.39e-01<>5.40e-01[  0.0%]|
5.40e-01<>5.41e-01[  0.0%]|
5.41e-01<>5.42e-01[  0.0%]|
5.42e-01<>5.43e-01[ 20.0%]|************************************************
5.43e-01<>5.45e-01[ 20.0%]|************************************************

closest_2d, size = 32000
Analysis of 5 timings
avg = 1.180   min = 1.165  max = 1.198  span = 2.8%

   Time Ranges
1.17e+00<>1.17e+00[ 20.0%]|************************************************
1.17e+00<>1.17e+00[ 20.0%]|************************************************
1.17e+00<>1.17e+00[  0.0%]|
1.17e+00<>1.18e+00[  0.0%]|
1.18e+00<>1.18e+00[ 20.0%]|************************************************A
1.18e+00<>1.18e+00[  0.0%]|
1.18e+00<>1.19e+00[  0.0%]|
1.19e+00<>1.19e+00[ 20.0%]|************************************************
1.19e+00<>1.19e+00[  0.0%]|
1.19e+00<>1.20e+00[  0.0%]|
1.20e+00<>1.20e+00[ 20.0%]|************************************************

closest_2d, size = 64000
Analysis of 5 timings
avg = 2.478   min = 2.434  max = 2.505  span = 2.9%

   Time Ranges
2.43e+00<>2.44e+00[ 20.0%]|************************************************
2.44e+00<>2.45e+00[  0.0%]|
2.45e+00<>2.46e+00[  0.0%]|
2.46e+00<>2.46e+00[  0.0%]|
2.46e+00<>2.47e+00[ 20.0%]|************************************************
2.47e+00<>2.48e+00[  0.0%]|
2.48e+00<>2.48e+00[ 20.0%]|************************************************A
2.48e+00<>2.49e+00[  0.0%]|
2.49e+00<>2.50e+00[  0.0%]|
2.50e+00<>2.50e+00[ 20.0%]|************************************************
2.50e+00<>2.51e+00[ 20.0%]|************************************************
```

```
closest_2d, size = 128000
Analysis of 5 timings
avg = 5.571   min = 5.522  max = 5.645  span = 2.2%

   Time Ranges
5.52e+00<>5.53e+00[ 20.0%]|**************************************************
5.53e+00<>5.55e+00[ 20.0%]|**************************************************
5.55e+00<>5.56e+00[  0.0%]|
5.56e+00<>5.57e+00[ 20.0%]|**************************************************A
5.57e+00<>5.58e+00[ 20.0%]|**************************************************
5.58e+00<>5.60e+00[  0.0%]|
5.60e+00<>5.61e+00[  0.0%]|
5.61e+00<>5.62e+00[  0.0%]|
5.62e+00<>5.63e+00[  0.0%]|
5.63e+00<>5.64e+00[  0.0%]|
5.64e+00<>5.66e+00[ 20.0%]|**************************************************

closest_2d, size = 256000
Analysis of 5 timings
avg = 11.682   min = 11.605  max = 11.772  span = 1.4%

   Time Ranges
1.16e+01<>1.16e+01[ 20.0%]|**************************************************
1.16e+01<>1.16e+01[  0.0%]|
1.16e+01<>1.17e+01[  0.0%]|
1.17e+01<>1.17e+01[ 20.0%]|**************************************************
1.17e+01<>1.17e+01[ 20.0%]|**************************************************A
1.17e+01<>1.17e+01[ 20.0%]|**************************************************
1.17e+01<>1.17e+01[  0.0%]|
1.17e+01<>1.17e+01[  0.0%]|
1.17e+01<>1.18e+01[  0.0%]|
1.18e+01<>1.18e+01[  0.0%]|
1.18e+01<>1.18e+01[ 20.0%]|**************************************************

closest_2d, size = 512000
Analysis of 5 timings
avg = 25.802   min = 25.694  max = 25.881  span = 0.7%

   Time Ranges
2.57e+01<>2.57e+01[ 20.0%]|**************************************************
2.57e+01<>2.57e+01[  0.0%]|
2.57e+01<>2.58e+01[  0.0%]|
2.58e+01<>2.58e+01[ 20.0%]|**************************************************
2.58e+01<>2.58e+01[  0.0%]|
2.58e+01<>2.58e+01[ 20.0%]|**************************************************A
2.58e+01<>2.58e+01[  0.0%]|
2.58e+01<>2.58e+01[  0.0%]|
2.58e+01<>2.59e+01[  0.0%]|
2.59e+01<>2.59e+01[ 20.0%]|**************************************************
2.59e+01<>2.59e+01[ 20.0%]|**************************************************

closest_2d, size = 1024000
Analysis of 5 timings
avg = 57.984   min = 56.906  max = 58.873  span = 3.4%

   Time Ranges
5.69e+01<>5.71e+01[ 20.0%]|**************************************************
5.71e+01<>5.73e+01[  0.0%]|
5.73e+01<>5.75e+01[  0.0%]|
5.75e+01<>5.77e+01[ 20.0%]|**************************************************
```

```
5.77e+01<>5.79e+01[ 20.0%]|************************************************
5.79e+01<>5.81e+01[  0.0%]|A
5.81e+01<>5.83e+01[  0.0%]|
5.83e+01<>5.85e+01[  0.0%]|
5.85e+01<>5.87e+01[  0.0%]|
5.87e+01<>5.89e+01[ 20.0%]|************************************************
5.89e+01<>5.91e+01[ 20.0%]|************************************************
```

Sample output from my solution to Problem #2:
(yours should match the format: the times/counts depend on your machine's speed and the random list created).

```
Fri Nov 25 09:15:27 2016    test_profile

         16828753 function calls (16697683 primitive calls) in 7.119 seconds

   Ordered by: call count

   ncalls  tottime  percall  cumtime  percall filename:lineno(function)
  5191304    0.245    0.000    0.245    0.000 {built-in method builtins.len}
  3238194    0.639    0.000    0.639    0.000 ...\q82solution.py:14(swap)
  2301436    0.109    0.000    0.109    0.000 {built-in method builtins.abs}
  2113535    0.101    0.000    0.101    0.000 {method 'append' of 'list' objects}
  1031168    0.074    0.000    0.074    0.000 ...\q82solution.py:69(<lambda>)
  1016832    0.087    0.000    0.087    0.000 ...\q82solution.py:68(<lambda>)
   287930    0.043    0.000    0.043    0.000 {built-in method math.sqrt}
   287930    0.320    0.000    0.362    0.000 ...\q82solution.py:42(dist)
   256000    0.015    0.000    0.015    0.000 {method 'random' of '_random.Random' objects}
   252463    1.396    0.000    2.035    0.000 ...\q82solution.py:13(partition)
131071/1    2.896    0.000    7.054    7.054 ...\q82solution.py:41(closest_2d)
   131070    0.052    0.000    0.052    0.000 ...\q82solution.py:43(<listcomp>)
   131070    0.078    0.000    0.160    0.000 ...\q82solution.py:43(min_none)
   131070    0.701    0.000    0.862    0.000 {method 'sort' of 'list' objects}
   131070    0.031    0.000    0.031    0.000 {built-in method builtins.min}
    65535    0.128    0.000    0.128    0.000 ...\q82solution.py:49(<listcomp>)
    65535    0.151    0.000    2.188    0.000 ...\q82solution.py:26(select)
    65535    0.005    0.000    0.005    0.000 {method 'extend' of 'list' objects}
        1    0.004    0.004    7.119    7.119 <string>:1(<module>)
        1    0.000    0.000    0.000    0.000 {method 'disable' of '_lsprof.Profiler' objects}
        1    0.001    0.001    7.114    7.114 ...\q82solution.py:93(test)
        1    0.000    0.000    7.119    7.119 {built-in method builtins.exec}
        1    0.044    0.044    0.059    0.059 ...\q82solution.py:94(<listcomp>)


Fri Nov 25 09:15:27 2016    test_profile

         16828753 function calls (16697683 primitive calls) in 7.119 seconds

   Ordered by: internal time

   ncalls  tottime  percall  cumtime  percall filename:lineno(function)
131071/1    2.896    0.000    7.054    7.054 ...\q82solution.py:41(closest_2d)
   252463    1.396    0.000    2.035    0.000 ...\q82solution.py:13(partition)
   131070    0.701    0.000    0.862    0.000 {method 'sort' of 'list' objects}
  3238194    0.639    0.000    0.639    0.000 ...\q82solution.py:14(swap)
   287930    0.320    0.000    0.362    0.000 ...\q82solution.py:42(dist)
  5191304    0.245    0.000    0.245    0.000 {built-in method builtins.len}
    65535    0.151    0.000    2.188    0.000 ...\q82solution.py:26(select)
    65535    0.128    0.000    0.128    0.000 ...\q82solution.py:49(<listcomp>)
  2301436    0.109    0.000    0.109    0.000 {built-in method builtins.abs}
  2113535    0.101    0.000    0.101    0.000 {method 'append' of 'list' objects}
  1016832    0.087    0.000    0.087    0.000 ...\q82solution.py:68(<lambda>)
   131070    0.078    0.000    0.160    0.000 ...\q82solution.py:43(min_none)
  1031168    0.074    0.000    0.074    0.000 ...\q82solution.py:69(<lambda>)
   131070    0.052    0.000    0.052    0.000 ...\q82solution.py:43(<listcomp>)
        1    0.044    0.044    0.059    0.059 ...\q82solution.py:94(<listcomp>)
   287930    0.043    0.000    0.043    0.000 {built-in method math.sqrt}
   131070    0.031    0.000    0.031    0.000 {built-in method builtins.min}
   256000    0.015    0.000    0.015    0.000 {method 'random' of '_random.Random' objects}
```

```
    65535    0.005    0.000    0.005    0.000 {method 'extend' of 'list' objects}
        1    0.004    0.004    7.119    7.119 <string>:1(<module>)
        1    0.001    0.001    7.114    7.114 ...\q82solution.py:93(test)
        1    0.000    0.000    7.119    7.119 {built-in method builtins.exec}
        1    0.000    0.000    0.000    0.000 {method 'disable' of '_lsprof.Profiler' objects}


Fri Nov 25 09:15:27 2016    test_profile

         16828753 function calls (16697683 primitive calls) in 7.119 seconds

   Ordered by: cumulative time

   ncalls  tottime  percall  cumtime  percall filename:lineno(function)
        1    0.000    0.000    7.119    7.119 {built-in method builtins.exec}
        1    0.004    0.004    7.119    7.119 <string>:1(<module>)
        1    0.001    0.001    7.114    7.114 ...\q82solution.py:93(test)
 131071/1    2.896    0.000    7.054    7.054 ...\q82solution.py:41(closest_2d)
    65535    0.151    0.000    2.188    0.000 ...\q82solution.py:26(select)
   252463    1.396    0.000    2.035    0.000 ...\q82solution.py:13(partition)
   131070    0.701    0.000    0.862    0.000 {method 'sort' of 'list' objects}
  3238194    0.639    0.000    0.639    0.000 ...\q82solution.py:14(swap)
   287930    0.320    0.000    0.362    0.000 ...\q82solution.py:42(dist)
  5191304    0.245    0.000    0.245    0.000 {built-in method builtins.len}
   131070    0.078    0.000    0.160    0.000 ...\q82solution.py:43(min_none)
    65535    0.128    0.000    0.128    0.000 ...\q82solution.py:49(<listcomp>)
  2301436    0.109    0.000    0.109    0.000 {built-in method builtins.abs}
  2113535    0.101    0.000    0.101    0.000 {method 'append' of 'list' objects}
  1016832    0.087    0.000    0.087    0.000 ...\q82solution.py:68(<lambda>)
  1031168    0.074    0.000    0.074    0.000 ...\q82solution.py:69(<lambda>)
        1    0.044    0.044    0.059    0.059 ...\q82solution.py:94(<listcomp>)
   131070    0.052    0.000    0.052    0.000 ...\q82solution.py:43(<listcomp>)
   287930    0.043    0.000    0.043    0.000 {built-in method math.sqrt}
   131070    0.031    0.000    0.031    0.000 {built-in method builtins.min}
   256000    0.015    0.000    0.015    0.000 {method 'random' of '_random.Random' objects}
    65535    0.005    0.000    0.005    0.000 {method 'extend' of 'list' objects}
        1    0.000    0.000    0.000    0.000 {method 'disable' of '_lsprof.Profiler' objects}
```