```
/*
 * Runtime Report In Seconds
 */

 2 100    1.20e-05 1.60e-05 1.10e-05 1.50e-05 1.60e-05
 2 200    1.90e-05 2.00e-05 1.70e-05 1.80e-05 1.50e-05
 4 100    1.20e-05 1.20e-05 1.40e-05 1.40e-05 1.50e-05
 4 200    1.90e-05 1.60e-05 1.40e-05 1.40e-05 1.60e-05
 6 100    1.20e-05 1.30e-05 1.40e-05 1.80e-05 1.80e-05
 6 200    2.20e-05 1.60e-05 1.50e-05 1.70e-05 1.50e-05
 8 100    1.50e-05 1.20e-05 1.20e-05 2.30e-05 1.20e-05
 8 200    1.70e-05 1.70e-05 1.90e-05 1.40e-05 1.60e-05
```

```
/*
 * Runtime Report In Seconds
 */

 2 100    2.30e-05 2.50e-05 9.00e-06 1.20e-05 1.10e-05
 2 200    1.20e-05 1.20e-05 2.00e-05 9.40e-05 8.00e-06
 4 100    1.10e-04 5.40e-05 5.30e-05 2.90e-05 7.80e-05
 4 200    1.60e-05 2.20e-05 1.70e-05 5.89e-04 1.45e-04
 6 100    3.40e-05 9.00e-05 2.50e-05 9.00e-05 1.07e-04
 6 200    1.23e-04 1.17e-04 1.40e-04 2.01e-04 2.80e-05
 8 100    1.14e-04 1.30e-04 2.55e-04 5.50e-05 1.04e-04
 8 200    1.31e-04 4.70e-05 6.54e-04 2.06e-04 5.00e-05
```

```
/*
 * CPU Report
 */

 /* CPU */

model name      : Intel(R) Core(TM) i7-4770K CPU @ 3.50GHz
vendor_id       : GenuineIntel
cpu cores       : 4
siblings        : 8
cache size      : 8192 KB

 /* Calculation Reports */

 2 Cores CPU - Size Problem 100

   Try 1

     Runtime 2.30e-05 [s]

     Process         Total  problemSize       Total        Local        Total
        0              2          50           100       1.458325     1.458325
        1              2          50           100       1.208325     2.666650
------------------------------------------------------------------------------
   Try 2

     Runtime 2.50e-05 [s]

     Process         Total  problemSize       Total        Local        Total
        0              2          50           100       1.458325     1.458325
        1              2          50           100       1.208325     2.666650
------------------------------------------------------------------------------
   Try 3

     Runtime 9.00e-06 [s]

     Process         Total  problemSize       Total        Local        Total
        0              2          50           100       1.458325     1.458325
        1              2          50           100       1.208325     2.666650
------------------------------------------------------------------------------
   Try 4

     Runtime 1.20e-05 [s]

     Process         Total  problemSize       Total        Local        Total
        0              2          50           100       1.458325     1.458325
        1              2          50           100       1.208325     2.666650
------------------------------------------------------------------------------
   Try 5

     Runtime 1.10e-05 [s]

     Process         Total  problemSize       Total        Local        Total
        0              2          50           100       1.458325     1.458325
        1              2          50           100       1.208325     2.666650
------------------------------------------------------------------------------

 2 Cores CPU - Size Problem 200

   Try 1

     Runtime 1.20e-05 [s]

     Process         Total  problemSize       Total        Local        Total
        0              2         100           200       1.458331     1.458331
        1              2         100           200       1.208331     2.666663
------------------------------------------------------------------------------
   Try 2

     Runtime 1.20e-05 [s]

     Process         Total  problemSize       Total        Local        Total
```

Process	Total	problemSize	Total	Local	Total
0	2	100	200	1.458331	1.458331
1	2	100	200	1.208331	2.666663

Try 3

Runtime 2.00e-05 [s]

Process	Total	problemSize	Total	Local	Total
0	2	100	200	1.458331	1.458331
1	2	100	200	1.208331	2.666663

Try 4

Runtime 9.40e-05 [s]

Process	Total	problemSize	Total	Local	Total
0	2	100	200	1.458331	1.458331
1	2	100	200	1.208331	2.666663

Try 5

Runtime 8.00e-06 [s]

Process	Total	problemSize	Total	Local	Total
0	2	100	200	1.458331	1.458331
1	2	100	200	1.208331	2.666663

---

4 Cores CPU – Size Problem 100

Try 1

Runtime 1.10e-04 [s]

Process	Total	problemSize	Total	Local	Total
0	4	25	100	0.744788	0.744788
1	4	25	100	0.713538	1.458325
2	4	25	100	0.651037	2.109363
3	4	25	100	0.557288	2.666650

Try 2

Runtime 5.40e-05 [s]

Process	Total	problemSize	Total	Local	Total
0	4	25	100	0.744788	0.744788
1	4	25	100	0.713538	1.458325
2	4	25	100	0.651037	2.109363
3	4	25	100	0.557288	2.666650

Try 3

Runtime 5.30e-05 [s]

Process	Total	problemSize	Total	Local	Total
0	4	25	100	0.744788	0.744788
1	4	25	100	0.713538	1.458325
2	4	25	100	0.651037	2.109363
3	4	25	100	0.557288	2.666650

Try 4

Runtime 2.90e-05 [s]

Process	Total	problemSize	Total	Local	Total
0	4	25	100	0.744788	0.744788
1	4	25	100	0.713538	1.458325
2	4	25	100	0.651037	2.109363
3	4	25	100	0.557288	2.666650

Try 5

Runtime 7.80e-05 [s]

Process	Total	problemSize	Total	Local	Total
0	4	25	100	0.744788	0.744788
1	4	25	100	0.713538	1.458325
2	4	25	100	0.651037	2.109363
3	4	25	100	0.557288	2.666650

---

4 Cores CPU – Size Problem 200

  Try 1

    Runtime 1.60e-05 [s]

Process	Total	problemSize	Total	Local	Total
0	4	50	200	0.744791	0.744791
1	4	50	200	0.713541	1.458331
2	4	50	200	0.651041	2.109372
3	4	50	200	0.557291	2.666663

  Try 2

    Runtime 2.20e-05 [s]

Process	Total	problemSize	Total	Local	Total
0	4	50	200	0.744791	0.744791
1	4	50	200	0.713541	1.458331
2	4	50	200	0.651041	2.109372
3	4	50	200	0.557291	2.666663

  Try 3

    Runtime 1.70e-05 [s]

Process	Total	problemSize	Total	Local	Total
0	4	50	200	0.744791	0.744791
1	4	50	200	0.713541	1.458331
2	4	50	200	0.651041	2.109372
3	4	50	200	0.557291	2.666663

  Try 4

    Runtime 5.89e-04 [s]

Process	Total	problemSize	Total	Local	Total
0	4	50	200	0.744791	0.744791
1	4	50	200	0.713541	1.458331
2	4	50	200	0.651041	2.109372
3	4	50	200	0.557291	2.666663

  Try 5

    Runtime 1.45e-04 [s]

Process	Total	problemSize	Total	Local	Total
0	4	50	200	0.744791	0.744791
1	4	50	200	0.713541	1.458331
2	4	50	200	0.651041	2.109372
3	4	50	200	0.557291	2.666663

---

6 Cores CPU – Size Problem 100

  Try 1

    Runtime 3.40e-05 [s]

Process	Total	problemSize	Total	Local	Total
0	6	16	100	0.478632	0.478632
1	6	16	100	0.470440	0.949072
2	6	16	100	0.454056	1.403128
3	6	16	100	0.429480	1.832608
4	6	16	100	0.396712	2.229320

Process	Total	problemSize	Total	Local	Total
5	6	16	100	0.355752	2.585072

  Try 2

    Runtime 9.00e-05 [s]

Process	Total	problemSize	Total	Local	Total
0	6	16	100	0.478632	0.478632
1	6	16	100	0.470440	0.949072
2	6	16	100	0.454056	1.403128
3	6	16	100	0.429480	1.832608
4	6	16	100	0.396712	2.229320
5	6	16	100	0.355752	2.585072

  Try 3

    Runtime 2.50e-05 [s]

Process	Total	problemSize	Total	Local	Total
0	6	16	100	0.478632	0.478632
1	6	16	100	0.470440	0.949072
2	6	16	100	0.454056	1.403128
3	6	16	100	0.429480	1.832608
4	6	16	100	0.396712	2.229320
5	6	16	100	0.355752	2.585072

  Try 4

    Runtime 9.00e-05 [s]

Process	Total	problemSize	Total	Local	Total
0	6	16	100	0.478632	0.478632
1	6	16	100	0.470440	0.949072
2	6	16	100	0.454056	1.403128
3	6	16	100	0.429480	1.832608
4	6	16	100	0.396712	2.229320
5	6	16	100	0.355752	2.585072

  Try 5

    Runtime 1.07e-04 [s]

Process	Total	problemSize	Total	Local	Total
0	6	16	100	0.478632	0.478632
1	6	16	100	0.470440	0.949072
2	6	16	100	0.454056	1.403128
3	6	16	100	0.429480	1.832608
4	6	16	100	0.396712	2.229320
5	6	16	100	0.355752	2.585072

----

 6 Cores CPU – Size Problem 200

  Try 1

    Runtime 1.23e-04 [s]

Process	Total	problemSize	Total	Local	Total
0	6	33	200	0.493502	0.493502
1	6	33	200	0.484518	0.978020
2	6	33	200	0.466549	1.444569
3	6	33	200	0.439596	1.884165
4	6	33	200	0.403659	2.287825
5	6	33	200	0.358738	2.646563

  Try 2

    Runtime 1.17e-04 [s]

Process	Total	problemSize	Total	Local	Total
0	6	33	200	0.493502	0.493502
1	6	33	200	0.484518	0.978020
2	6	33	200	0.466549	1.444569

Process	Total	problemSize	Total	Local	Total
3	6	33	200	0.439596	1.884165
4	6	33	200	0.403659	2.287825
5	6	33	200	0.358738	2.646563

Try 3

Runtime 1.40e-04 [s]

Process	Total	problemSize	Total	Local	Total
0	6	33	200	0.493502	0.493502
1	6	33	200	0.484518	0.978020
2	6	33	200	0.466549	1.444569
3	6	33	200	0.439596	1.884165
4	6	33	200	0.403659	2.287825
5	6	33	200	0.358738	2.646563

Try 4

Runtime 2.01e-04 [s]

Process	Total	problemSize	Total	Local	Total
0	6	33	200	0.493502	0.493502
1	6	33	200	0.484518	0.978020
2	6	33	200	0.466549	1.444569
3	6	33	200	0.439596	1.884165
4	6	33	200	0.403659	2.287825
5	6	33	200	0.358738	2.646563

Try 5

Runtime 2.80e-05 [s]

Process	Total	problemSize	Total	Local	Total
0	6	33	200	0.493502	0.493502
1	6	33	200	0.484518	0.978020
2	6	33	200	0.466549	1.444569
3	6	33	200	0.439596	1.884165
4	6	33	200	0.403659	2.287825
5	6	33	200	0.358738	2.646563

---

8 Cores CPU - Size Problem 100

Try 1

Runtime 1.14e-04 [s]

Process	Total	problemSize	Total	Local	Total
0	8	12	100	0.359422	0.359422
1	8	12	100	0.355966	0.715388
2	8	12	100	0.349054	1.064442
3	8	12	100	0.338686	1.403128
4	8	12	100	0.324862	1.727990
5	8	12	100	0.307582	2.035572
6	8	12	100	0.286846	2.322418
7	8	12	100	0.262654	2.585072

Try 2

Runtime 1.30e-04 [s]

Process	Total	problemSize	Total	Local	Total
0	8	12	100	0.359422	0.359422
1	8	12	100	0.355966	0.715388
2	8	12	100	0.349054	1.064442
3	8	12	100	0.338686	1.403128
4	8	12	100	0.324862	1.727990
5	8	12	100	0.307582	2.035572
6	8	12	100	0.286846	2.322418
7	8	12	100	0.262654	2.585072

Try 3

```
    Runtime 2.55e-04 [s]

    Process        Total   problemSize        Total        Local        Total
        0              8            12          100     0.359422     0.359422
        1              8            12          100     0.355966     0.715388
        2              8            12          100     0.349054     1.064442
        3              8            12          100     0.338686     1.403128
        4              8            12          100     0.324862     1.727990
        5              8            12          100     0.307582     2.035572
        6              8            12          100     0.286846     2.322418
        7              8            12          100     0.262654     2.585072
--------------------------------------------------------------------------------
  Try 4

    Runtime 5.50e-05 [s]

    Process        Total   problemSize        Total        Local        Total
        0              8            12          100     0.359422     0.359422
        1              8            12          100     0.355966     0.715388
        2              8            12          100     0.349054     1.064442
        3              8            12          100     0.338686     1.403128
        4              8            12          100     0.324862     1.727990
        5              8            12          100     0.307582     2.035572
        6              8            12          100     0.286846     2.322418
        7              8            12          100     0.262654     2.585072
--------------------------------------------------------------------------------
  Try 5

    Runtime 1.04e-04 [s]

    Process        Total   problemSize        Total        Local        Total
        0              8            12          100     0.359422     0.359422
        1              8            12          100     0.355966     0.715388
        2              8            12          100     0.349054     1.064442
        3              8            12          100     0.338686     1.403128
        4              8            12          100     0.324862     1.727990
        5              8            12          100     0.307582     2.035572
        6              8            12          100     0.286846     2.322418
        7              8            12          100     0.262654     2.585072
--------------------------------------------------------------------------------

 8 Cores CPU - Size Problem 200

  Try 1

    Runtime 1.31e-04 [s]

    Process        Total   problemSize        Total        Local        Total
        0              8            25          200     0.374348     0.374348
        1              8            25          200     0.370442     0.744791
        2              8            25          200     0.362630     1.107420
        3              8            25          200     0.350911     1.458331
        4              8            25          200     0.335286     1.793617
        5              8            25          200     0.315755     2.109372
        6              8            25          200     0.292317     2.401689
        7              8            25          200     0.264973     2.666663
--------------------------------------------------------------------------------
  Try 2

    Runtime 4.70e-05 [s]

    Process        Total   problemSize        Total        Local        Total
        0              8            25          200     0.374348     0.374348
        1              8            25          200     0.370442     0.744791
        2              8            25          200     0.362630     1.107420
        3              8            25          200     0.350911     1.458331
        4              8            25          200     0.335286     1.793617
        5              8            25          200     0.315755     2.109372
        6              8            25          200     0.292317     2.401689
        7              8            25          200     0.264973     2.666663
--------------------------------------------------------------------------------
  Try 3
```

Runtime 6.54e-04 [s]

Process	Total	problemSize	Total	Local	Total
0	8	25	200	0.374348	0.374348
1	8	25	200	0.370442	0.744791
2	8	25	200	0.362630	1.107420
3	8	25	200	0.350911	1.458331
4	8	25	200	0.335286	1.793617
5	8	25	200	0.315755	2.109372
6	8	25	200	0.292317	2.401689
7	8	25	200	0.264973	2.666663

Try 4

Runtime 2.06e-04 [s]

Process	Total	problemSize	Total	Local	Total
0	8	25	200	0.374348	0.374348
1	8	25	200	0.370442	0.744791
2	8	25	200	0.362630	1.107420
3	8	25	200	0.350911	1.458331
4	8	25	200	0.335286	1.793617
5	8	25	200	0.315755	2.109372
6	8	25	200	0.292317	2.401689
7	8	25	200	0.264973	2.666663

Try 5

Runtime 5.00e-05 [s]

Process	Total	problemSize	Total	Local	Total
0	8	25	200	0.374348	0.374348
1	8	25	200	0.370442	0.744791
2	8	25	200	0.362630	1.107420
3	8	25	200	0.350911	1.458331
4	8	25	200	0.335286	1.793617
5	8	25	200	0.315755	2.109372
6	8	25	200	0.292317	2.401689
7	8	25	200	0.264973	2.666663