

Sep 23, 14 14:03

**"csc710sbse: hw4: Witschey"**

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```
$ python -m hw4.hw4
```

```

rank ,      name ,      med      ,      iqr
5  -----
   1 ,      'zines ,      64      ,      44 ( *      |      ),28.00, 32.00, 64.00, 64.00, 76.00
   2 ,      TPBs ,      176      ,      80 (      * ----- |      ),128.00, 128.00, 176.00, 208.00, 321.00
   3 ,      comp ,      361      ,      82 (      - *---      |      ),312.00, 316.00, 361.00, 398.00, 436.00
   3 ,      phil ,      524      ,      342 (      --- |      *----- ),290.00, 346.00, 524.00, 524.00, 688.00

```

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```
##### Part 3 #####
2014-10-06 20:02:44.540058
```

```
Schaffer
```

```
5 -----
SimulatedAnnealer
era_length: 50, initialized: 2014-10-06 20:02:44.540153, iterations: 1000, log_eras: True, p_mutation: 0.333333333333, s
earcher: SimulatedAnnealer, terminate_early: False
```

```
10 2.1e+02 ?..!+..!+....!+..!+..?..!+..?..?.....?+....!+.....?...+....?..?..+..?..+.....
2.2 ..?..+....+.....?..+....?..+....+.....?.....?.....+....+..?..+..
2.2 ??..+..?..+....?..+....+.....?..?..+....+.....?..+..?..+....+.....?..
2.2 .....+...?..?..+..+....?..?..+.....?.....
2.2 +....?....?..+....+..?..+....+..?..+....+..?..+..+....+....+...
2.2
```

```
15 Best: 2.1666
total time: 0.012s      mean time: 0.012s
      |                *, 2.17, 2.17, 2.17, 2.17, 2.17
```

```
20 MaxWalkSat
era_length: 50, initialized: 2014-10-06 20:02:44.552281, iterations: 1000, log_eras: True, p_mutation: 0.333333333333, s
earcher: MaxWalkSat, terminate_early: False
```

```
25 2.1e+02 .....++.....+.....
2.0 .....
2.0 .....
2.0 .....
2.0
```

```
30 Best: 2.0079
total time: 0.005s      mean time: 0.005s
      |                *, 2.01, 2.01, 2.01, 2.01, 2.01
```

```
35 =====
=====
```

```
Fonseca
```

```
40 -----
SimulatedAnnealer
era_length: 50, initialized: 2014-10-06 20:02:44.556945, iterations: 1000, log_eras: True, p_mutation: 0.333333333333, s
earcher: SimulatedAnnealer, terminate_early: False
```

```
45 2.0 ?..!+..?..?..+..?..+....!+..?..?.....+...+..?..?..+..+..+.....
1.6 !+...?..?..+....+..+..?..+..+..?..+..+..?..+..?..?.....?..+..+..+..
1.0 ..?..+..+.....?..+..+....+.....?..+..+..?..+..+..+.....?..+..
1.0 .....+..?..+..+..?..+..+..+..+..+..?..?.....+.....?..+.....
1.0 ..+.....+.....+..?..+..+..+.....+.....?..?.....+.....+.....?..
1.0 +..?.....+..?.....+..?..+..+..?..+..?.....+.....+.....
1.0
```

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```

50 Best: 1.0313
total time: 0.019s mean time: 0.019s
      |          *,    1.03,    1.03,    1.03,    1.03,    1.03

55 MaxWalkSat
era_length: 50, initialized: 2014-10-06 20:02:44.576150, iterations: 1000, log_eras: True, p_mutation: 0.333333333333, s
earcher: MaxWalkSat, terminate_early: False

   2.0 +.....+.....
60   1.9 .....
   1.9 .....+.....
   1.9 .....
   1.9 .....

65 Best: 1.8788
total time: 0.006s mean time: 0.006s
      |          *,    1.88,    1.88,    1.88,    1.88,    1.88

70 =====
   =====

Kursawe
-----
75 SimulatedAnnealer
era_length: 50, initialized: 2014-10-06 20:02:44.582077, iterations: 1000, log_eras: True, p_mutation: 0.333333333333, s
earcher: SimulatedAnnealer, terminate_early: False

   2.3 ?.!+.!.!+...!.!+.?...?+.?...+..+...?.!+.!+.?...?..+..?..+..+..?..+..?....?.
-1.1e+01 .+.?.?.+.?.?.+.+.+.+.+.?.+.+.+.+.?.+.?.!+.?.?...?..?..+.....+...?..+..+.
80 -1.3e+01 ..+.?.?.+.?.?.?.+.+.+.+.+.?.?.+.+.+.+.?.+.?.?..?..+..?..+.....+..
-1.3e+01 ....?.?.+.+.+.+.+.!.+?.?.+.?.?...?..+..?..+..?..+.....+..?..+.....
-1.3e+01 +.?.?.+.?.?.+.+.+.+.?.+.+.+.+.?.?...?..+..?..+.....+.....?..+..
-1.3e+01 ?.?.+.+.+.?.+.+.+.+.+.+.+.+.+.?.+.+.+.+.?.?...?..+..?..+.....
-1.3e+01 ..+.+.+.+.+.+.+.+.+.+.?.+.+.+.?.+.+.+.+.?.?...?..+..?..+.....
85 -1.3e+01 ....?.+.+.+.+.?.+.+.+.+.+.+.+.+.+.?.?...?..+..?..+.....!+...?..+.....+.....
-1.4e+01 ....?.+.+.?.+.+.+.?.+.+.+.+.+.+.+.+.+.+.+.+.+.+.+.+.+.+.+.+.+.+.+.+.+.+.+.+.+.+.
-1.4e+01 .+.?.+.+.+.+.+.+.+.?.?.?.?.+.+.+.+.+.+.+.+.+.+.+.+.+.+.+.+.+.+.+.+.+.+.
-1.4e+01 .....+.+.+.?.+.+.?.+.+.?.+.+.+.+.+.+.+.+.+.+.+.?.?.?.+.+.+.+.+.+.+.+.+.+.
-1.4e+01

90 Best: -13.5806
total time: 0.034s mean time: 0.034s
      *         |           , -13.58, -13.58, -13.58, -13.58, -13.58

95 MaxWalkSat
era_length: 50, initialized: 2014-10-06 20:02:44.657892, iterations: 1000, log_eras: True, p_mutation: 0.333333333333, s
earcher: MaxWalkSat, terminate_early: False

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hw4/outs.txt

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```
=====
150 =====

ZDT3
-----
SimulatedAnnealer
155 era_length: 50, initialized: 2014-10-06 20:02:44.718164, iterations: 1000, log_eras: True, p_mutation: 0.333333333333, s
earcher: SimulatedAnnealer, terminate_early: False

1.6 ?..+..?..+..?..+..?..+..+..+..+..+..?..+..+..?..+..?..+..?..+..!+..?..+..?..+..+..+..+..+..?..+..+..+..
1.1 ?..+..+..?..+..+..?..+..+..?..+..+..+..?..+..+..?..+..+..+..?..+..+..?..+..+..+..?..+..+..?..+..?..+..?..
1.1 +..?..+..?..+..+..?..+..+..?..+..+..+..?..+..+..?..+..+..+..?..+..+..+..?..+..+..+..?..+..+..+..?..+..
160 1.1 +..?..+..?..+..+..+..?..+..+..+..+..+..?..+..+..+..?..+..+..+..?..+..+..+..?..+..+..+..?..+..+..+..
1.1 +..?..+..?..+..+..+..?..+..+..+..+..+..?..+..+..+..?..+..+..+..?..+..+..+..?..+..+..+..?..+..+..+..
1.1 +..+..+..+..?..+..+..+..+..+..+..+..+..?..+..+..+..+..+..+..+..+..+..+..+..+..+..+..?..+..+..+..+..
1.1 ?..+..+..+..+..?..+..+..+..+..+..+..+..+..+..+..+..+..+..+..+..+..+..+..+..+..+..+..+..+..+..+..+..
1.1
165 Best: 1.1469
total time: 0.036s      mean time: 0.036s
      |              *, 1.15, 1.15, 1.15, 1.15, 1.15

170 MaxWalkSat
era_length: 50, initialized: 2014-10-06 20:02:44.754609, iterations: 1000, log_eras: True, p_mutation: 0.333333333333, s
earcher: MaxWalkSat, terminate_early: False

1.6 +.....+.....++....
175 1.5 .....
1.5 .....
1.5 .....
1.5 .....
1.5 .....

180 Best: 1.5060
total time: 0.006s      mean time: 0.006s
      |              *, 1.51, 1.51, 1.51, 1.51, 1.51

185 =====
=====

Viennet3
-----
190 SimulatedAnnealer
era_length: 50, initialized: 2014-10-06 20:02:44.806509, iterations: 1000, log_eras: True, p_mutation: 0.333333333333, s
earcher: SimulatedAnnealer, terminate_early: False

2.8e+01 ?..!+..!+..?..?..?..+..!+..!+..!+..?..?..?..?..+..?..+..?..+..+..?..?..+..+..+..+..+..
1.6e+01 ....?..+..+..+..+..+..+..?..+..+..?..+..+..?..+..+..+..+..+..+..+..+..+..+..+..+..+..+..+..
195 1.6e+01 ..?.....+..?..+.....+..?..+..+..+..+..+..+..?..?..+..+..?..+..+..+..+..+..+..+..+..+..+..
1.6e+01 .+.....+..?.....+..+..?..+.....+.....+.....+.....+.....+.....+.....+.....+.....+.....+.....+.....
1.6e+01 ?...+.....+..?.....+..+..+.....?..+..+.....+.....+.....+.....+.....+.....+.....+.....+.....+.....
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```

1.6e+01 .....?+. ....?..+.....?..+..+.....+..?+. ....?....+...
1.6e+01 .+.....?+. ....?..+..+.....+.....?+. ....+.....+.....?....+..+...
200 1.6e+01

```

```

Best: 16.0571
total time: 0.028s      mean time: 0.028s
                    |      *, 16.06, 16.06, 16.06, 16.06, 16.06
205

```

```

MaxWalkSat
era_length: 50, initialized: 2014-10-06 20:02:44.836958, iterations: 1000, log_eras: True, p_mutation: 0.333333333333, s
earcher: MaxWalkSat, terminate_early: False

```

```

210 2.8e+01 +.....
1.7e+01 .....
1.7e+01 .....
1.7e+01 .....
1.7e+01 .....
215

```

```

Best: 17.4286
total time: 0.004s      mean time: 0.004s
                    |      *, 17.43, 17.43, 17.43, 17.43, 17.43
220

```

```

=====
##### Part 5 #####
2014-10-06 20:02:44.841486
225

```

```

Schaffer
-----
SimulatedAnnealer
era_length: 50, initialized: 2014-10-06 20:02:45.359971, iterations: 1000, log_eras: True, p_mutation: 0.333333333333, s
earcher: SimulatedAnnealer, terminate_early: True

```

```

230 2.3e+01 ?....?+. ....?..+.....?..+.....!+. ....?..+.....?....?....?....+...
2.7 .....?..+.....+.....+.....+.....?..+.....+.....?..+...
2.7 ..?..+.....+.....?..+.....!+. ....?..+.....+.....+.....?..
2.0 ...+.?..+.....?..+.....?..+.....+.....?..+.....+.....?..+...
235 2.0 ?..+.....+.....?..+.....?..+.....!+. ....?..+.....+.....
2.0 ?..+.....+.....?..+.....+.....+.....?..+.....+.....?..+...
2.0 ?..+.....+.....+.....?..+.....?..+.....+.....?..+.....+.....?..+...
2.0 .....?..+.....+.....?..+.....+.....+.....?..+.....+.....+...
2.0 ?..+.....+.....+.....?..+.....?..+.....+.....+.....+.....+...
240 2.0

```

```

Best: 2.0504
total time: 0.533s      mean time: 0.018s
                    |      *- , 2.00, 2.00, 2.01, 2.04, 2.17
245

```

MaxWalkSat

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```
era_length: 50, initialized: 2014-10-06 20:02:45.490455, iterations: 1000, log_eras: True, p_mutation: 0.333333333333, s
earcher: MaxWalkSat, terminate_early: True
```

```

250  2.8e+01 .....
      2.8e+01 .....
      2.8e+01 .....++.....+
      2.1 .....
      2.1

```

```

255 Best: 9.3754
    total time: 0.112s      mean time: 0.004s
      * ----- |           ,   2.01,   2.22,   4.32,  10.55,  23.34

```

260

Fonseca

```
265 -----
    SimulatedAnnealer
    era_length: 50, initialized: 2014-10-06 20:02:46.314736, iterations: 1000, log_eras: True, p_mutation: 0.333333333333, s
    earcher: SimulatedAnnealer, terminate_early: True
```

```

270 2.0  !+...!+?.!+?...+...+...+...!+!+?...?...+...!+?...+?...+?...!+?...+...
    1.2  +?...?.+...?...+...+...+...+...+...+...?...?...+...?...+...+...?...
    1.2  !+?...?.+?...+...+...+...+...+...+...+...?...?...+...?...+...+...
    1.1  ..+...+...+...+...+...+...+...+...+...+...+...+...+...+...+...+...
    1.1  ...+?...+...+...+...+...+...+...+...+...+...+...+...+...+...+...
    1.1  +...?...+...?...+...+...+...+...+...+...+...+...+...+...+...+...
275 1.1

```

```
Best: 1.0431
total time: 0.828s      mean time: 0.028s
                        *      ,      1.00,      1.02,      1.03,      1.05,      1.10
```

```
MaxWalkSat
era_length: 50, initialized: 2014-10-06 20:02:46.538240, iterations: 1000, log_eras: True, p_mutation: 0.333333333333, s
earcher: MaxWalkSat, terminate_early: True
```

```

285  2.0 .....+.
      2.0 .....+.
      1.1 .....
      1.1 .....
      1.1 .....

```

```

290 Best: 1.4332
    total time: 0.168s      mean time: 0.006s
                          |-- * ----- ,   1.08,   1.21,   1.33,   1.62,   1.95

```

295

335



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```
395 5.7 .....
5.7 .....
5.7 .....
5.7 .....
400 5.7

Best: 5.1809
total time: 0.206s      mean time: 0.007s
----- *| ----- , 2.28, 3.98, 5.01, 6.50, 8.65

405

=====
=====

410 Viennet3
-----
SimulatedAnnealer
era_length: 50, initialized: 2014-10-06 20:02:52.368551, iterations: 1000, log_eras: True, p_mutation: 0.333333333333, s
earcher: SimulatedAnnealer, terminate_early: True

415 2.7e+01 !+...?..?..!+...!+...?..?..!+...?.....?.....?.....+..?..?..+...+..?..+..?..+...+...
1.6e+01 ...?..+..?..?..?..+.....?.....?.....?..+...+.....+.....?.....?..?..+..?..+...+...+..
1.6e+01 ?..+...?..?..+...+...?..+...+...+...?..+...+...?..+...?..+...+.....?.....+!+.....
1.6e+01 ?..?..?..+...+...+...?.....+...+...?..?..+...+.....+...?.....+.....?..+...+...+...
1.6e+01 ..?..?..+..?..+.....+.....?..+...+...+.....?..?..+...+...+...?..+.....+.....
420 1.6e+01 ?.....?..+...+...?.....+.....+.....+.....+.....+.....+.....?..?..+...+.....+.....+..
1.6e+01 .....?..+...?..+...?.....+...?.....+.....?..+...+.....?..?..+...+...
1.6e+01 +.....?..+...+...+...+...?..?..?..+...+.....+.....+.....+.....+...?..
1.6e+01

425 Best: 16.0871
total time: 0.967s      mean time: 0.032s
      |                * , 15.98, 16.00, 16.03, 16.07, 16.47

430 MaxWalkSat
era_length: 50, initialized: 2014-10-06 20:02:52.543769, iterations: 1000, log_eras: True, p_mutation: 0.333333333333, s
earcher: MaxWalkSat, terminate_early: True

2.2e+01 .....
2.2e+01 .....+.....
435 1.9e+01 .....+.....++.....
1.7e+01 .....
1.7e+01

Best: 17.7627
440 total time: 0.151s      mean time: 0.005s
      |      -*--- , 16.38, 16.89, 17.30, 17.86, 20.49

=====
```

	rank	name	med	iqr
450	1	SA	3	0 ( *
	2	SA	3	0 ( *
	3	SA	3	0 ( *
	4	SA	4	0 ( *
	4	SA	4	0 ( *
455	5	SA	4	0 ( *
	6	SA	4	0 ( *
	6	SA	4	0 ( *
	7	SA	4	0 ( *
	8	SA	4	0 ( *
460	9	SA	4	0 ( *
	9	SA	4	0 ( *
	10	SA	4	0 ( *
	10	SA	4	0 ( *
	11	SA	4	0 ( *
465	11	SA	4	0 ( *
	12	SA	4	0 ( *
	12	SA	4	0 ( *
	13	SA	5	0 ( *
	14	SA	5	0 ( *
470	15	SA	5	0 ( *
	15	SA	5	0 ( *
	15	SA	5	0 ( *
	16	SA	5	0 ( *
	16	SA	5	0 ( *
475	16	SA	5	0 ( *
	16	SA	5	0 ( *
	17	SA	6	0 ( *
	17	MWS	6	0 ( *
	18	SA	6	0 ( *
480	18	SA	6	0 ( *
	18	SA	6	0 ( *
	18	SA	6	0 ( *
	19	SA	6	0 ( *
	19	SA	6	0 ( *
485	19	SA	6	0 ( *
	19	SA	6	0 ( *
	19	SA	6	0 ( *
	20	SA	6	0 ( *
	20	SA	6	0 ( *
490	20	SA	6	0 ( *
	21	SA	6	0 ( *
	21	SA	6	0 ( *
	22	SA	6	0 ( *
	22	SA	6	0 ( *
495	23	SA	6	0 ( *
	23	SA	6	0 ( *

)	, 3.62,	3.62,	3.71,	3.71,	3.89
)	, 3.83,	3.83,	3.83,	3.83,	3.83
)	, 3.97,	3.97,	3.97,	3.97,	3.97
)	, 4.20,	4.20,	4.20,	4.20,	4.29
)	, 4.21,	4.21,	4.21,	4.21,	4.21
)	, 4.26,	4.26,	4.26,	4.26,	4.26
)	, 4.31,	4.31,	4.31,	4.31,	4.31
)	, 4.31,	4.31,	4.31,	4.31,	4.31
)	, 4.36,	4.36,	4.36,	4.36,	4.36
)	, 4.55,	4.55,	4.55,	4.55,	4.55
)	, 4.58,	4.58,	4.58,	4.58,	4.58
)	, 4.58,	4.58,	4.58,	4.58,	4.58
)	, 4.69,	4.69,	4.69,	4.69,	4.69
)	, 4.69,	4.69,	4.69,	4.69,	4.69
)	, 4.74,	4.74,	4.74,	4.74,	4.74
)	, 4.75,	4.75,	4.75,	4.75,	4.75
)	, 4.79,	4.79,	4.79,	4.85,	4.92
)	, 4.97,	4.97,	4.97,	4.97,	4.97
)	, 5.06,	5.06,	5.06,	5.06,	5.06
)	, 5.09,	5.09,	5.09,	5.09,	5.09
)	, 5.21,	5.21,	5.21,	5.21,	5.21
)	, 5.37,	5.37,	5.37,	5.37,	5.37
)	, 5.40,	5.40,	5.40,	5.40,	5.40
)	, 5.62,	5.62,	5.62,	5.62,	5.62
)	, 5.70,	5.70,	5.70,	5.70,	5.70
)	, 5.94,	5.94,	5.94,	5.94,	5.94
)	, 5.94,	5.94,	5.94,	5.94,	5.94
)	, 6.38,	6.38,	6.38,	6.38,	6.38
)	, 6.39,	6.39,	6.39,	6.39,	6.39
)	, 6.42,	6.42,	6.42,	6.42,	6.42
)	, 6.44,	6.44,	6.44,	6.44,	6.44
)	, 6.45,	6.45,	6.45,	6.45,	6.45
)	, 6.52,	6.52,	6.52,	6.52,	6.52
)	, 6.62,	6.62,	6.62,	6.62,	6.62
)	, 6.66,	6.66,	6.66,	6.66,	6.66
)	, 6.66,	6.66,	6.66,	6.66,	6.66
)	, 6.67,	6.67,	6.67,	6.67,	6.67
)	, 6.67,	6.67,	6.67,	6.67,	6.67
)	, 6.69,	6.69,	6.69,	6.69,	6.69
)	, 6.71,	6.71,	6.71,	6.71,	6.71
)	, 6.72,	6.72,	6.72,	6.72,	6.72
)	, 6.76,	6.76,	6.76,	6.76,	6.76
)	, 6.82,	6.82,	6.82,	6.82,	6.82
)	, 6.86,	6.86,	6.86,	6.86,	6.86
)	, 6.90,	6.90,	6.90,	6.90,	6.90
)	, 6.92,	6.92,	6.92,	6.92,	6.92
)	, 6.93,	6.93,	6.93,	6.93,	6.93

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500	24 ,	SA ,	6 ,	0 (	*						
	24 ,	SA ,	6 ,	0 (	*						
	25 ,	SA ,	7 ,	0 (	*						
	25 ,	SA ,	7 ,	0 (	*						
	25 ,	SA ,	7 ,	0 (	*						
	25 ,	SA ,	7 ,	0 (	*						
505	25 ,	SA ,	7 ,	0 (	*						
	25 ,	SA ,	7 ,	0 (	*						
	25 ,	SA ,	7 ,	0 (	*						
	25 ,	SA ,	7 ,	0 (	*						
	25 ,	SA ,	7 ,	0 (	*						
	25 ,	SA ,	7 ,	0 (	*						
510	26 ,	SA ,	7 ,	0 (	*						
	26 ,	SA ,	7 ,	0 (	*						
	26 ,	SA ,	7 ,	0 (	*						
	26 ,	SA ,	7 ,	0 (	*						
	26 ,	SA ,	7 ,	0 (	*						
	26 ,	SA ,	7 ,	0 (	*						
515	26 ,	SA ,	7 ,	0 (	*						
	27 ,	SA ,	7 ,	0 (	*						
	27 ,	SA ,	7 ,	0 (	*						
	27 ,	SA ,	7 ,	0 (	*						
	27 ,	SA ,	7 ,	0 (	*						
	27 ,	SA ,	7 ,	0 (	*						
520	27 ,	SA ,	7 ,	0 (	*						
	28 ,	SA ,	7 ,	0 (	*						
	28 ,	SA ,	7 ,	0 (	*						
	28 ,	SA ,	7 ,	0 (	*						
	28 ,	SA ,	7 ,	0 (	*						
	28 ,	SA ,	7 ,	0 (	*						
525	29 ,	SA ,	7 ,	0 (	*						
	29 ,	SA ,	7 ,	0 (	*						
	29 ,	SA ,	7 ,	0 (	*						
	29 ,	SA ,	7 ,	0 (	*						
	30 ,	SA ,	7 ,	0 (	*						
	30 ,	SA ,	7 ,	0 (	*						
530	31 ,	SA ,	7 ,	0 (	*						
	31 ,	SA ,	7 ,	0 (	*						
	31 ,	SA ,	7 ,	0 (	*						
	31 ,	SA ,	7 ,	0 (	*						
	32 ,	SA ,	7 ,	0 (	*						
	32 ,	SA ,	7 ,	0 (	*						
535	32 ,	SA ,	7 ,	0 (	*						
	33 ,	SA ,	7 ,	0 (	*						
	33 ,	SA ,	7 ,	0 (	*						
	34 ,	SA ,	7 ,	0 (	*						
	34 ,	SA ,	7 ,	0 (	*						
	35 ,	SA ,	7 ,	0 (	*						
540	35 ,	SA ,	7 ,	0 (	*						
	35 ,	MWS ,	7 ,	0 (	*						
	36 ,	MWS ,	8 ,	0 (	*						
	36 ,	MWS ,	8 ,	0 (	*						
	36 ,	MWS ,	8 ,	0 (	*						
	36 ,	MWS ,	8 ,	0 (	*						
545	36 ,	MWS ,	8 ,	0 (	*						
	37 ,	MWS ,	8 ,	0 (	*						
	37 ,	MWS ,	8 ,	0 (	*						
	37 ,	SA ,	8 ,	0 (	*						

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550	37	, MWS	, 8	, 0	(	*	)	, 8.45,	8.45,	8.45,	8.45,	8.45	
	38	, SA	, 8	, 0	(	*	)	, 8.47,	8.47,	8.47,	8.47,	8.47	
	38	, MWS	, 8	, 0	(	*	)	, 8.48,	8.48,	8.48,	8.48,	8.48	
	39	, MWS	, 8	, 0	(	*	)	, 8.49,	8.49,	8.49,	8.49,	8.49	
	39	, MWS	, 8	, 0	(	*	)	, 8.50,	8.50,	8.50,	8.50,	8.50	
555	40	, MWS	, 8	, 0	(	*	)	, 8.51,	8.51,	8.51,	8.51,	8.51	
	40	, MWS	, 8	, 0	(	*	)	, 8.53,	8.53,	8.53,	8.53,	8.53	
	41	, MWS	, 8	, 0	(	*	)	, 8.58,	8.58,	8.58,	8.58,	8.58	
	41	, MWS	, 8	, 0	(	*	)	, 8.58,	8.58,	8.58,	8.58,	8.58	
	41	, MWS	, 8	, 0	(	*	)	, 8.59,	8.59,	8.59,	8.59,	8.59	
560	41	, MWS	, 8	, 0	(	*	)	, 8.59,	8.59,	8.59,	8.59,	8.59	
	41	, MWS	, 8	, 0	(	*	)	, 8.60,	8.60,	8.60,	8.60,	8.60	
	41	, MWS	, 8	, 0	(	*	)	, 8.62,	8.62,	8.62,	8.62,	8.62	
	42	, MWS	, 8	, 0	(	*	)	, 8.67,	8.67,	8.67,	8.67,	8.67	
	42	, MWS	, 8	, 0	(	*	)	, 8.68,	8.68,	8.68,	8.68,	8.68	
565	43	, MWS	, 8	, 0	(	*	)	, 8.73,	8.73,	8.73,	8.73,	8.73	
	43	, MWS	, 8	, 0	(	*	)	, 8.74,	8.74,	8.74,	8.74,	8.74	
	43	, MWS	, 8	, 0	(	*	)	, 8.81,	8.81,	8.81,	8.81,	8.81	
	44	, MWS	, 8	, 0	(	*	)	, 8.91,	8.91,	8.91,	8.91,	8.91	
	44	, MWS	, 8	, 0	(	*	)	, 8.92,	8.92,	8.92,	8.92,	8.92	
570	45	, MWS	, 8	, 0	(	*	)	, 8.94,	8.94,	8.94,	8.94,	8.94	
	45	, MWS	, 8	, 0	(	*	)	, 8.95,	8.95,	8.95,	8.95,	8.95	
	46	, MWS	, 9	, 0	(	*	)	, 9.04,	9.04,	9.04,	9.04,	9.04	
	46	, MWS	, 9	, 0	(	*	)	, 9.05,	9.05,	9.05,	9.05,	9.05	
	46	, MWS	, 9	, 0	(	*	)	, 9.07,	9.07,	9.07,	9.07,	9.07	
575	47	, MWS	, 9	, 0	(	*	)	, 9.10,	9.10,	9.10,	9.10,	9.10	
	47	, MWS	, 9	, 0	(	*	)	, 9.12,	9.12,	9.12,	9.12,	9.12	
	48	, MWS	, 9	, 0	(	*	)	, 9.20,	9.20,	9.20,	9.20,	9.20	
	48	, MWS	, 9	, 0	(	*	)	, 9.21,	9.21,	9.21,	9.21,	9.21	
	48	, MWS	, 9	, 0	(	*	)	, 9.21,	9.21,	9.21,	9.21,	9.21	
580	49	, MWS	, 9	, 0	(	*	)	, 9.25,	9.25,	9.25,	9.25,	9.25	
	49	, MWS	, 9	, 0	(	*	)	, 9.26,	9.26,	9.26,	9.26,	9.26	
	49	, MWS	, 9	, 0	(	*	)	, 9.29,	9.29,	9.29,	9.29,	9.29	
	50	, MWS	, 9	, 0	(	*	)	, 9.37,	9.37,	9.37,	9.37,	9.37	
	50	, MWS	, 9	, 0	(	*	)	, 9.37,	9.37,	9.37,	9.37,	9.37	
585	51	, MWS	, 9	, 0	(	*	)	, 9.38,	9.38,	9.38,	9.38,	9.38	
	51	, MWS	, 9	, 0	(	*	)	, 9.39,	9.39,	9.39,	9.39,	9.39	
	52	, MWS	, 9	, 0	(	*	)	, 9.42,	9.42,	9.42,	9.42,	9.42	
	52	, MWS	, 9	, 0	(	*	)	, 9.43,	9.43,	9.43,	9.43,	9.43	
	52	, MWS	, 9	, 0	(	*	)	, 9.43,	9.43,	9.43,	9.43,	9.43	
590	52	, MWS	, 9	, 0	(	*	)	, 9.45,	9.45,	9.45,	9.45,	9.45	
	53	, MWS	, 9	, 0	(	*	)	, 9.48,	9.48,	9.48,	9.48,	9.48	
	53	, MWS	, 9	, 0	(	*	)	, 9.51,	9.51,	9.51,	9.51,	9.51	
	53	, MWS	, 9	, 0	(	*	)	, 9.54,	9.54,	9.54,	9.54,	9.54	
	54	, MWS	, 9	, 0	(	*	)	, 9.67,	9.67,	9.67,	9.67,	9.67	
595	54	, MWS	, 9	, 0	(	*	)	, 9.72,	9.72,	9.72,	9.72,	9.72	
	54	, MWS	, 9	, 0	(	*	)	, 9.83,	9.83,	9.83,	9.83,	9.83	
	55	, MWS	, 9	, 0	(	*	)	, 9.89,	9.89,	9.89,	9.89,	9.89	
	55	, MWS	, 9	, 0	(	*	)	, 9.91,	9.91,	9.91,	9.91,	9.91	
	55	, MWS	, 9	, 0	(	*	)	, 9.94,	9.94,	9.94,	9.94,	9.94	
600	56	, MWS	, 9	, 0	(	*	)	, 9.97,	9.97,	9.97,	9.97,	9.97	
	56	, MWS	, 10	, 0	(	*	)	, 10.00,	10.00,	10.00,	10.00,	10.00	

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605	57 ,	MWS ,	10 ,	0 (	*	) ,10.02 ,	10.02 ,	10.02 ,	10.02 ,	10.02	
	57 ,	MWS ,	10 ,	0 (	*	) ,10.05 ,	10.05 ,	10.05 ,	10.05 ,	10.05	
	58 ,	MWS ,	10 ,	0 (	*	) ,10.10 ,	10.10 ,	10.10 ,	10.10 ,	10.10	
	58 ,	MWS ,	10 ,	0 (	*	) ,10.16 ,	10.16 ,	10.16 ,	10.16 ,	10.16	
	58 ,	MWS ,	10 ,	0 (	*	) ,10.17 ,	10.17 ,	10.17 ,	10.17 ,	10.17	
	59 ,	MWS ,	10 ,	0 (	*	) ,10.23 ,	10.23 ,	10.23 ,	10.23 ,	10.23	
	59 ,	MWS ,	10 ,	0 (	*	) ,10.25 ,	10.25 ,	10.25 ,	10.25 ,	10.25	
	59 ,	MWS ,	10 ,	0 (	*	) ,10.25 ,	10.25 ,	10.25 ,	10.25 ,	10.25	
	60 ,	MWS ,	10 ,	0 (	*	) ,10.33 ,	10.33 ,	10.33 ,	10.33 ,	10.33	
	60 ,	MWS ,	10 ,	0 (	*	) ,10.35 ,	10.35 ,	10.35 ,	10.35 ,	10.35	
610	60 ,	MWS ,	10 ,	0 (	*	) ,10.35 ,	10.35 ,	10.35 ,	10.35 ,	10.35	
	60 ,	MWS ,	10 ,	0 (	*	) ,10.36 ,	10.36 ,	10.36 ,	10.36 ,	10.36	
	60 ,	MWS ,	10 ,	0 (	*	) ,10.42 ,	10.42 ,	10.42 ,	10.42 ,	10.42	
	61 ,	MWS ,	10 ,	0 (	*	) ,10.54 ,	10.54 ,	10.54 ,	10.54 ,	10.54	
	61 ,	MWS ,	10 ,	0 (	*	) ,10.55 ,	10.55 ,	10.55 ,	10.55 ,	10.55	
615	62 ,	MWS ,	10 ,	0 (	*	) ,10.58 ,	10.58 ,	10.58 ,	10.58 ,	10.58	
	62 ,	MWS ,	10 ,	0 (	*	) ,10.59 ,	10.59 ,	10.59 ,	10.59 ,	10.59	
	62 ,	MWS ,	10 ,	0 (	*	) ,10.60 ,	10.60 ,	10.60 ,	10.60 ,	10.60	
	63 ,	MWS ,	10 ,	0 (	*	) ,10.67 ,	10.67 ,	10.67 ,	10.67 ,	10.67	
	63 ,	MWS ,	10 ,	0 (	*	) ,10.69 ,	10.69 ,	10.69 ,	10.69 ,	10.69	
620	64 ,	MWS ,	10 ,	0 (	*	) ,10.77 ,	10.77 ,	10.77 ,	10.77 ,	10.77	
	64 ,	MWS ,	10 ,	0 (	*	) ,10.77 ,	10.77 ,	10.77 ,	10.77 ,	10.77	
	64 ,	MWS ,	10 ,	0 (	*	) ,10.78 ,	10.78 ,	10.78 ,	10.78 ,	10.78	
	64 ,	MWS ,	10 ,	0 (	*	) ,10.89 ,	10.89 ,	10.89 ,	10.89 ,	10.89	
	64 ,	MWS ,	10 ,	0 (	*	) ,10.99 ,	10.99 ,	10.99 ,	10.99 ,	10.99	
625	65 ,	MWS ,	11 ,	0 (	*	) ,11.15 ,	11.15 ,	11.15 ,	11.15 ,	11.15	
	65 ,	MWS ,	11 ,	0 (	*	) ,11.30 ,	11.30 ,	11.30 ,	11.30 ,	11.30	
	65 ,	MWS ,	11 ,	0 (	*	) ,11.36 ,	11.36 ,	11.36 ,	11.36 ,	11.36	
	65 ,	MWS ,	11 ,	0 (	*	) ,11.96 ,	11.96 ,	11.96 ,	11.96 ,	11.96	
	630	None									