ASSIGNMENT 2 Graphs/Output

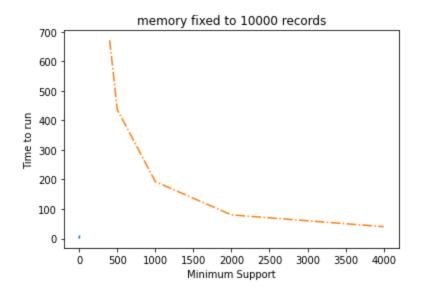
_

Team Mates:

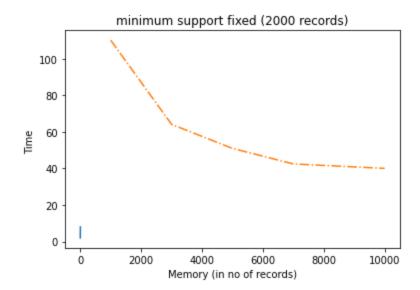
B Krupa Kiranmai, *2021201022* N C S Jagannath, *2021201024*

Graphs

Minimum Support Vs Runtime



Memory Allocated Vs Runtime



Outputs:

A cuboid of dimension { year, sex, gdp_per_capita , generation}:

```
* 1985 female * * * * lower-middle G.I. Generation 42
* 1985 female * * * * lower-middle Generation X 42
* 1985 female * * * * upper-middle G.I. Generation 34
* 1985 female * * * * upper-middle Generation X 34
* 1985 male * * * * lower-middle G.I. Generation 42
* 1985 male * * * * lower-middle Generation X 42
* 1985 male * * * * upper-middle G.I. Generation 34
* 1985 male * * * * upper-middle Generation X 34
* 1986 female * * * * lower-middle G.I. Generation 38
* 1986 female * * * * lower-middle Generation X 38
* 1986 female * * * * upper-middle G.I. Generation 32
* 1986 female * * * * upper-middle Generation X 32
* 1986 male * * * * lower-middle G.I. Generation 38
* 1986 male * * * * lower-middle Generation X 38
* 1986 male * * * * upper-middle G.I. Generation 32
* 1986 male * * * * upper-middle Generation X 32
* 1987 female * * * * high G.I. Generation 36
* 1987 female * * * * high Generation X 36
* 1987 female * * * * lower-middle G.I. Generation 38
* 1987 female * * * * lower-middle Generation X 38
* 1987 male * * * * high G.I. Generation 36
* 1987 male * * * * high Generation X 36
* 1987 male * * * * lower-middle G.I. Generation 38
* 1987 male * * * * lower-middle Generation X 38
* 1988 female * * * * high G.I. Generation 34
```

```
* 1988 female * * * * high Generation X 34
```

- * 1988 female * * * * lower-middle G.I. Generation 34
- * 1988 female * * * * lower-middle Generation X 34
- * 1988 male * * * * high G.I. Generation 34
- * 1988 male * * * * high Generation X 34
- * 1988 male * * * * lower-middle G.I. Generation 34
- * 1988 male * * * * lower-middle Generation X 34
- * 1989 female * * * * high G.I. Generation 36
- * 1989 female * * * * high Generation X 36
- * 1989 female * * * * lower-middle G.I. Generation 42
- * 1989 female * * * * lower-middle Generation X 42
- * 1989 male * * * * high G.I. Generation 36
- * 1989 male * * * * high Generation X 36
- * 1989 male * * * * lower-middle G.I. Generation 42
- * 1989 male * * * * lower-middle Generation X 42
- * 1990 female * * * * high G.I. Generation 42
- * 1990 female * * * * high Generation X 42
- * 1990 female * * * * lower-middle G.I. Generation 52
- * 1990 female * * * * lower-middle Generation X 52
- * 1990 male * * * * high G.I. Generation 42
- * 1990 male * * * * high Generation X 42
- * 1990 male * * * * lower-middle G.I. Generation 52
- * 1990 male * * * * lower-middle Generation X 52
- * 1991 female * * * * high Boomers 42
- * 1991 female * * * * lower-middle Boomers 50
- * 1991 male * * * * high Boomers 42
- * 1991 male * * * * lower-middle Boomers 50
- * 1992 female * * * * high Boomers 42
- * 1992 female * * * * lower-middle Boomers 42
- * 1992 male * * * * high Boomers 42

- * 1992 male * * * * lower-middle Boomers 42
- * 1993 female * * * * high Boomers 46
- * 1993 female * * * * lower-middle Boomers 36
- * 1993 female * * * * upper-middle Boomers 30
- * 1993 male * * * * high Boomers 46
- * 1993 male * * * * lower-middle Boomers 36
- * 1993 male * * * * upper-middle Boomers 30
- * 1994 female * * * * high Boomers 50
- * 1994 female * * * * lower-middle Boomers 36
- * 1994 female * * * * upper-middle Boomers 32
- * 1994 male * * * * high Boomers 50
- * 1994 male * * * * lower-middle Boomers 36
- * 1994 male * * * * upper-middle Boomers 32
- * 1995 female * * * * high Boomers 31
- * 1995 female * * * * high G.I. Generation 31
- * 1995 female * * * * high Generation X 62
- * 1995 female * * * * high Millenials 31
- * 1995 female * * * * high Silent 31
- * 1995 female * * * * lower-middle Generation X 42
- * 1995 female * * * * upper-middle Generation X 32
- * 1995 male * * * * high Boomers 31
- * 1995 male * * * * high G.I. Generation 31
- * 1995 male * * * * high Generation X 62
- * 1995 male * * * * high Millenials 31
- * 1995 male * * * * high Silent 31
- * 1995 male * * * * lower-middle Generation X 42
- * 1995 male * * * * upper-middle Generation X 32
- * 1996 female * * * * high Generation X 58
- * 1996 female * * * * lower-middle Generation X 44
- * 1996 female * * * * upper-middle Generation X 34

- * 1996 male * * * * high Generation X 58
- * 1996 male * * * * lower-middle Generation X 44
- * 1996 male * * * * upper-middle Generation X 34
- * 1997 female * * * * high Generation X 58
- * 1997 female * * * * lower-middle Generation X 44
- * 1997 female * * * * upper-middle Generation X 34
- * 1997 male * * * * high Generation X 58
- * 1997 male * * * * lower-middle Generation X 44
- * 1997 male * * * * upper-middle Generation X 34
- * 1998 female * * * * high Generation X 56
- * 1998 female * * * * lower-middle Generation X 42
- * 1998 female * * * * upper-middle Generation X 40
- * 1998 male * * * * high Generation X 56
- * 1998 male * * * * lower-middle Generation X 42
- * 1998 male * * * * upper-middle Generation X 40
- * 1999 female * * * * high Boomers 31
- * 1999 female * * * * high G.I. Generation 31
- * 1999 female * * * * high Generation X 62
- * 1999 female * * * * high Millenials 31
- * 1999 female * * * * high Silent 31
- * 1999 female * * * * lower-middle Generation X 44
- * 1999 female * * * * upper-middle Generation X 42
- * 1999 male * * * * high Boomers 31
- * 1999 male * * * * high G.I. Generation 31
- * 1999 male * * * * high Generation X 62
- * 1999 male * * * * high Millenials 31
- * 1999 male * * * * high Silent 31
- * 1999 male * * * * lower-middle Generation X 44
- * 1999 male * * * * upper-middle Generation X 42
- * 2000 female * * * * high Boomers 32

- * 2000 female * * * * high G.I. Generation 32
- * 2000 female * * * * high Generation X 64
- * 2000 female * * * * high Millenials 32
- * 2000 female * * * * high Silent 32
- * 2000 female * * * * lower-middle Generation X 42
- * 2000 female * * * * upper-middle Generation X 46
- * 2000 male * * * * high Boomers 32
- * 2000 male * * * * high G.I. Generation 32
- * 2000 male * * * * high Generation X 64
- * 2000 male * * * * high Millenials 32
- * 2000 male * * * * high Silent 32
- * 2000 male * * * * lower-middle Generation X 42
- * 2000 male * * * * upper-middle Generation X 46
- * 2001 female * * * * high Boomers 32
- * 2001 female * * * * high Generation X 32
- * 2001 female * * * * high Millenials 64
- * 2001 female * * * * high Silent 64
- * 2001 female * * * * lower-middle Millenials 48
- * 2001 female * * * * lower-middle Silent 48
- * 2001 female * * * * upper-middle Millenials 46
- * 2001 female * * * * upper-middle Silent 46
- * 2001 male * * * * high Boomers 32
- * 2001 male * * * * high Generation X 32
- * 2001 male * * * * high Millenials 64
- * 2001 male * * * * high Silent 64
- * 2001 male * * * * lower-middle Millenials 48
- * 2001 male * * * * lower-middle Silent 48
- * 2001 male * * * * upper-middle Millenials 46
- * 2001 male * * * * upper-middle Silent 46
- * 2002 female * * * * high Boomers 34

- * 2002 female * * * * high Generation X 34
- * 2002 female * * * * high Millenials 68
- * 2002 female * * * * high Silent 68
- * 2002 female * * * * lower-middle Millenials 48
- * 2002 female * * * * lower-middle Silent 48
- * 2002 female * * * * upper-middle Millenials 44
- * 2002 female * * * * upper-middle Silent 44
- * 2002 male * * * * high Boomers 34
- * 2002 male * * * * high Generation X 34
- * 2002 male * * * * high Millenials 68
- * 2002 male * * * * high Silent 68
- * 2002 male * * * * lower-middle Millenials 48
- * 2002 male * * * * lower-middle Silent 48
- * 2002 male * * * * upper-middle Millenials 44
- * 2002 male * * * * upper-middle Silent 44
- * 2003 female * * * * high Boomers 34
- * 2003 female * * * * high Generation X 34
- * 2003 female * * * * high Millenials 68
- * 2003 female * * * * high Silent 68
- * 2003 female * * * * lower-middle Millenials 54
- * 2003 female * * * * lower-middle Silent 54
- * 2003 female * * * * upper-middle Millenials 42
- * 2003 female * * * * upper-middle Silent 42
- * 2003 male * * * * high Boomers 34
- * 2003 male * * * * high Generation X 34
- * 2003 male * * * * high Millenials 68
- * 2003 male * * * * high Silent 68
- * 2003 male * * * * lower-middle Millenials 54
- * 2003 male * * * * lower-middle Silent 54
- * 2003 male * * * * upper-middle Millenials 42

- * 2003 male * * * * upper-middle Silent 42
- * 2004 female * * * * high Boomers 35
- * 2004 female * * * * high Generation X 35
- * 2004 female * * * * high Millenials 70
- * 2004 female * * * * high Silent 70
- * 2004 female * * * * lower-middle Millenials 40
- * 2004 female * * * * lower-middle Silent 40
- * 2004 female * * * * upper-middle Millenials 54
- * 2004 female * * * * upper-middle Silent 54
- * 2004 male * * * * high Boomers 35
- * 2004 male * * * * high Generation X 35
- * 2004 male * * * * high Millenials 70
- * 2004 male * * * * high Silent 70
- * 2004 male * * * * lower-middle Millenials 40
- * 2004 male * * * * lower-middle Silent 40
- * 2004 male * * * * upper-middle Millenials 54
- * 2004 male * * * * upper-middle Silent 54
- * 2005 female * * * * high Boomers 39
- * 2005 female * * * * high Generation X 39
- * 2005 female * * * * high Millenials 78
- * 2005 female * * * * high Silent 78
- * 2005 female * * * * upper-middle Boomers 30
- * 2005 female * * * * upper-middle Generation X 30
- * 2005 female * * * * upper-middle Millenials 60
- * 2005 female * * * * upper-middle Silent 60
- * 2005 male * * * * high Boomers 39
- * 2005 male * * * * high Generation X 39
- * 2005 male * * * * high Millenials 78
- * 2005 male * * * * high Silent 78
- * 2005 male * * * * upper-middle Boomers 30

- * 2005 male * * * * upper-middle Generation X 30
- * 2005 male * * * * upper-middle Millenials 60
- * 2005 male * * * * upper-middle Silent 60
- * 2006 female * * * * high Boomers 42
- * 2006 female * * * * high Generation X 42
- * 2006 female * * * * high Millenials 84
- * 2006 female * * * * high Silent 84
- * 2006 female * * * * upper-middle Millenials 58
- * 2006 female * * * * upper-middle Silent 58
- * 2006 male * * * * high Boomers 42
- * 2006 male * * * * high Generation X 42
- * 2006 male * * * * high Millenials 84
- * 2006 male * * * * high Silent 84
- * 2006 male * * * * upper-middle Millenials 58
- * 2006 male * * * * upper-middle Silent 58
- * 2007 female * * * * high Boomers 47
- * 2007 female * * * * high Generation X 47
- * 2007 female * * * * high Generation Z 47
- * 2007 female * * * * high Millenials 47
- * 2007 female * * * * high Silent 94
- * 2007 female * * * * upper-middle Silent 56
- * 2007 male * * * * high Boomers 47
- * 2007 male * * * * high Generation X 47
- * 2007 male * * * * high Generation Z 47
- * 2007 male * * * * high Millenials 47
- * 2007 male * * * * high Silent 94
- * 2007 male * * * * upper-middle Silent 56
- * 2008 female * * * * high Boomers 48
- * 2008 female * * * * high Generation X 48
- * 2008 female * * * * high Generation Z 48

- * 2008 female * * * * high Millenials 48
- * 2008 female * * * * high Silent 96
- * 2008 female * * * * upper-middle Boomers 30
- * 2008 female * * * * upper-middle Generation X 30
- * 2008 female * * * * upper-middle Generation Z 30
- * 2008 female * * * * upper-middle Millenials 30
- * 2008 female * * * * upper-middle Silent 60
- * 2008 male * * * * high Boomers 48
- * 2008 male * * * * high Generation X 48
- * 2008 male * * * * high Generation Z 48
- * 2008 male * * * * high Millenials 48
- * 2008 male * * * * high Silent 96
- * 2008 male * * * * upper-middle Boomers 30
- * 2008 male * * * * upper-middle Generation X 30
- * 2008 male * * * * upper-middle Generation Z 30
- * 2008 male * * * * upper-middle Millenials 30
- * 2008 male * * * * upper-middle Silent 60
- * 2009 female * * * * high Boomers 47
- * 2009 female * * * * high Generation X 47
- * 2009 female * * * * high Generation Z 47
- * 2009 female * * * * high Millenials 47
- * 2009 female * * * * high Silent 94
- * 2009 female * * * * upper-middle Boomers 31
- * 2009 female * * * * upper-middle Generation X 31
- * 2009 female * * * * upper-middle Generation Z 31
- * 2009 female * * * * upper-middle Millenials 31
- * 2009 female * * * * upper-middle Silent 62
- * 2009 male * * * * high Boomers 47
- * 2009 male * * * * high Generation X 47
- * 2009 male * * * * high Generation Z 47

```
* 2009 male * * * * high Millenials 47
* 2009 male * * * * high Silent 94
* 2009 male * * * * upper-middle Boomers 31
* 2009 male * * * * upper-middle Generation X 31
* 2009 male * * * * upper-middle Generation Z 31
* 2009 male * * * * upper-middle Millenials 31
* 2009 male * * * * upper-middle Silent 62
* 2010 female * * * * high Generation X 96
* 2010 female * * * * high Generation Z 48
* 2010 female * * * * high Millenials 48
* 2010 female * * * * high Silent 96
* 2010 female * * * * upper-middle Generation X 58
* 2010 female * * * * upper-middle Silent 58
* 2010 male * * * * high Generation X 96
* 2010 male * * * * high Generation Z 48
* 2010 male * * * * high Millenials 48
* 2010 male * * * * high Silent 96
* 2010 male * * * * upper-middle Generation X 58
* 2010 male * * * * upper-middle Silent 58
* 2011 female * * * * high Boomers 51
* 2011 female * * * * high Generation X 51
* 2011 female * * * * high Generation Z 51
* 2011 female * * * * high Millenials 102
* 2011 female * * * * high Silent 51
* 2011 female * * * * upper-middle Millenials 50
* 2011 male * * * * high Boomers 51
* 2011 male * * * * high Generation X 51
* 2011 male * * * * high Generation Z 51
```

* 2011 male * * * * high Millenials 102

* 2011 male * * * * high Silent 51

- * 2011 male * * * * upper-middle Millenials 50
- * 2012 female * * * * high Boomers 52
- * 2012 female * * * * high Generation X 52
- * 2012 female * * * * high Generation Z 52
- * 2012 female * * * * high Millenials 104
- * 2012 female * * * * high Silent 52
- * 2012 female * * * * upper-middle Millenials 44
- * 2012 male * * * * high Boomers 52
- * 2012 male * * * * high Generation X 52
- * 2012 male * * * * high Generation Z 52
- * 2012 male * * * * high Millenials 104
- * 2012 male * * * * high Silent 52
- * 2012 male * * * * upper-middle Millenials 44
- * 2013 female * * * * high Boomers 53
- * 2013 female * * * * high Generation X 53
- * 2013 female * * * * high Generation Z 53
- * 2013 female * * * * high Millenials 106
- * 2013 female * * * * high Silent 53
- * 2013 female * * * * upper-middle Millenials 42
- * 2013 male * * * * high Boomers 53
- * 2013 male * * * * high Generation X 53
- * 2013 male * * * * high Generation Z 53
- * 2013 male * * * * high Millenials 106
- * 2013 male * * * * high Silent 53
- * 2013 male * * * * upper-middle Millenials 42
- * 2014 female * * * * high Boomers 50
- * 2014 female * * * * high Generation X 50
- * 2014 female * * * * high Generation Z 50
- * 2014 female * * * * high Millenials 100
- * 2014 female * * * * high Silent 50

```
* 2014 female * * * * upper-middle Millenials 48
* 2014 male * * * * high Boomers 50
* 2014 male * * * * high Generation X 50
* 2014 male * * * * high Generation Z 50
* 2014 male * * * * high Millenials 100
* 2014 male * * * * high Silent 50
* 2014 male * * * * upper-middle Millenials 48
* 2015 female * * * * high Boomers 39
* 2015 female * * * * high Generation X 39
* 2015 female * * * * high Generation Z 39
* 2015 female * * * * high Millenials 78
* 2015 female * * * * high Silent 39
* 2015 female * * * * upper-middle Millenials 38
* 2015 male * * * * high Boomers 39
* 2015 male * * * * high Generation X 39
* 2015 male * * * * high Generation Z 39
* 2015 male * * * * high Millenials 78
* 2015 male * * * * high Silent 39
* 2015 male * * * * upper-middle Millenials 38
```

Summary of full DataCube with minimum Support =1:

0 * * * * * * * * * : 101 0 1 * * * * * * * * : 2321 0 1 2 * * * * * * : 4642 0 1 2 3 * * * * * : 27820 0 1 2 3 4 5 * * * : 27820 0 1 2 3 4 5 6 * * : 27820 0 1 2 3 4 5 6 7 * : 27820 0 1 2 3 4 5 6 7 8 : 27820 0 1 2 3 4 5 6 7 8 : 27820

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- 012345*7*:27820
- 012345*78:27820
- 012345 * * 8:27820
- 0 1 2 3 4 * 6 * * : 27820
- 0 1 2 3 4 * 6 7 * : 27820
- 01234*678:27820
- 0 1 2 3 4 * 6 * 8 : 27820
- 0 1 2 3 4 * * 7 * : 27820
- 0 1 2 3 4 * * 7 8 : 27820
- 0 1 2 3 4 * * * 8 : 27820
- 0123*5***:27820
- 0123*56**:27820
- 0123*567*:27820
- 0123*5678:27820
- 0123*56*8:27820
- 0123*5*7*:27820
- 0123*5*78:27820
- 0123*5**8:27820
- 0 1 2 3 * * 6 * * : 27820
- 0123**67*:27820
- 0123**678:27820
- 0123**6*8:27820
- 0 1 2 3 * * * 7 *: 27820
- 0123***78:27820
- 0123****8:27820
- 012*4***:9391
- 012*45***:11712
- 012*456**:11857
- 012*4567*:11857

- 012*45678:24135
- 012*456*8:24135
- 012*45*7*:11712
- 012*45*78:24099
- 012*45**8:24099
- 012*4*6**:9558
- 012*4*67*:9558
- 012*4*678:23557
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- 012*4**7*:9391
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- 012*4***8:23512
- 012**5***:6984
- 012**56**:7199
- 012**567*:7199
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- 012**5*78:22247
- 012**5**8:22247
- 012***6**:4857
- 012***67*:4857
- 012***678:21420
- 012***6*8:21420
- 012****7*:4642
- 012****78:21346
- 012****8:21346
- 01*3****:13910
- 01*34***:17957
- 01*345***:18222

- 01*3456**:18419
- 01*34567*:18419
- 01*345678:18419
- 01*3456*8:18419
- 01*345*7*:18222
- 01*345*78:18222
- 01*345**8:18222
- 01*34*6**:18160
- 01*34*67*:18160
- 01*34*678:18160
- 01*34*6*8:18160
- 01*34**7*:17957
- 01*34**78:17957
- 01*34***8:17957
- 01*3*5***:14307
- 01*3*56**:14613
- 01*3*567*:14613
- 01*3*5678:14613
- 01*3*56*8:14613
- 01*3*5*7*:14307
- 01*3*5*78:14307
- 01*3*5**8:14307
- 01*3**6**:14227
- 01*3**67*:14227
- 01*3**678:14227
- 01*3**6*8:14227
- 01*3***7*:13910
- 01*3***78:13910
- 01*3***8:13910
- 01**4***:5250

- 01**45***:6853
- 01**456**:7016
- 01**4567*:7016
- 01**45678:15767
- 01**456*8:15767
- 01**45*7*:6853
- 01**45*78:15564
- 01**45**8:15564
- 01**4*6**:5403
- 01**4*67*:5403
- 01**4*678:15116
- 01**4*6*8:15116
- 01**4**7*:5250
- 01**4**78:14907
- 01**4***8:14907
- 01***5***:3601
- 01***56**:3782
- 01***567*:3782
- 01***5678:11714
- 01***56*8:11714
- 01***5*7*:3601
- 01***5*78:11429
- 01***5**8:11429
- 01****6**:2471
- 01****67*:2471
- 01****678:10963
- 01****6*8:10963
- 01****7*:2321
- 01****78:10673
- 01*****8:10673

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- 0 * 2 3 * * * * : 1210
- 0 * 2 3 4 * * * * : 1671
- 0 * 2 3 4 5 * * * : 1792
- 0 * 2 3 4 5 6 * * : 3141
- 0 * 2 3 4 5 6 7 * : 4613
- 0 * 2 3 4 5 6 7 8 : 6411
- 0 * 2 3 4 5 6 * 8 : 5058
- 0 * 2 3 4 5 * 7 * : 3213
- 0 * 2 3 4 5 * 7 8 : 5032
- 0 * 2 3 4 5 * * 8 : 3635
- 0 * 2 3 4 * 6 * * : 3004
- 0 * 2 3 4 * 6 7 * : 4495
- 0 * 2 3 4 * 6 7 8 : 6313
- 0 * 2 3 4 * 6 * 8 : 4953
- 0 * 2 3 4 * * 7 * : 3095
- 0 * 2 3 4 * * 7 8 : 4932
- 0 * 2 3 4 * * * 8 : 3532
- 0 * 2 3 * 5 * * * : 1317
- 0 * 2 3 * 5 6 * * : 2503
- 0 * 2 3 * 5 6 7 * : 3906
- 0 * 2 3 * 5 6 7 8 : 5596
- 0 * 2 3 * 5 6 * 8 : 4283
- 0 * 2 3 * 5 * 7 * : 2592
- 0 * 2 3 * 5 * 7 8 : 4256
- 0 * 2 3 * 5 * * 8 : 2953
- 0 * 2 3 * * 6 * * : 2377
- 0 * 2 3 * * 6 7 * : 3794
- 0 * 2 3 * * 6 7 8 : 5502
- 0 * 2 3 * * 6 * 8 : 4184

- 0 * 2 3 * * * 7 * : 2482
- 0 * 2 3 * * * 7 8 : 4160
- 0 * 2 3 * * * * 8 : 2856
- 0 * 2 * 4 * * * * : 453
- 0 * 2 * 4 5 * * * : 609
- 0 * 2 * 4 5 6 * * : 1160
- 0 * 2 * 4 5 6 7 * : 1780
- 0 * 2 * 4 5 6 7 8 : 4602
- 0 * 2 * 4 5 6 * 8 : 3326
- 0 * 2 * 4 5 * 7 * : 1167
- 0 * 2 * 4 5 * 7 8 : 3358
- 0 * 2 * 4 5 * * 8 : 2091
- 0 * 2 * 4 * 6 * * : 896
- 0 * 2 * 4 * 6 7 * : 1393
- 0 * 2 * 4 * 6 7 8 : 4306
- 0 * 2 * 4 * 6 * 8 : 3068
- 0 * 2 * 4 * * 7 * : 895
- 0 * 2 * 4 * * 7 8 : 3097
- 0 * 2 * 4 * * * 8:1886
- 0 * 2 * * 5 * * * : 318
- 0 * 2 * * 5 6 * * : 639
- 0 * 2 * * 5 6 7 * : 1011
- 0 * 2 * * 5 6 7 8 : 3490
- 0 * 2 * * 5 6 * 8 : 2387
- 0 * 2 * * 5 * 7 * : 637
- 0 * 2 * * 5 * 7 8 : 2417
- 0 * 2 * * 5 * * 8 : 1386
- 0 * 2 * * * 6 * * : 424
- 0 * 2 * * * 6 7 * : 679
- 0 * 2 * * * 6 7 8 : 3153

0 * 2 * * * 6 * 8 : 2109

0 * 2 * * * * 7 * : 414

0 * 2 * * * * 7 8 : 2132

0 * 2 * * * * 8 : 1180

0 * * 3 * * * * * : 605

0 * * 3 4 * * * * : 1005

0 * * 3 4 5 * * * : 1100

0 * * 3 4 5 6 * * : 1982

0 * * 3 4 5 6 7 * : 2958

0 * * 3 4 5 6 7 8 : 4132

0 * * 3 4 5 6 * 8 : 3237

0 * * 3 4 5 * 7 * : 2013

0 * * 3 4 5 * 7 8 : 3168

0 * * 3 4 5 * * 8 : 2262

0 * * 3 4 * 6 * * : 1865

0 * * 3 4 * 6 7 * : 2831

0 * * 3 4 * 6 7 8 : 4001

0 * * 3 4 * 6 * 8 : 3122

0 * * 3 4 * * 7 * : 1899

0 * * 3 4 * * 7 8 : 3051

0 * * 3 4 * * * 8:2164

0 * * 3 * 5 * * * : 675

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0 * * 3 * 5 6 7 * : 2071

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