```
TruthTable.java Starts
-----Truth table of 1 inputs function -----
0
1
Cpu time for n = 1 is 1.45258E-4 seconds
-----Truth table of 2 inputs function -----
00
01
10
11
Cpu time for n = 2 is 1.6302E-4 seconds
-----Truth table of 3 inputs function -----
000
001
010
011
100
101
110
111
Cpu time for n = 3 is 3.43013000000003E-4 seconds
-----Truth table of 4 inputs function -----
0000
0001
0010
0011
0100
0101
0110
0111
1000
1001
1010
1011
1100
1101
1110
1111
Cpu time for n = 4 is 6.69054000000001E-4 seconds
-----Truth table of 5 inputs function -----
00000
00001
00010
00011
00100
00101
00110
```

```
00111
01000
01001
01010
01011
01100
01101
01110
01111
10000
10001
10010
10011
10100
10101
10110
10111
11000
11001
11010
11011
11100
11101
11110
11111
Cpu time for n = 5 is 0.001389027 seconds
-----Truth table of 6 inputs function -----
000000
000001
000010
000011
000100
000101
000110
000111
001000
001001
001010
001011
001100
001101
001110
001111
010000
010001
010010
010011
```

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1011111
1100000
1100001
1100010
1100011
1100100
1100101
1100110
1100111
1101000
1101001
1101010
1101011
1101100
1101101
1101110
1101111
1110000
1110001
1110010
1110011
1110100
1110101
1110110
1110111
1111000
1111001
1111010
1111011
1111100
1111101
1111110
1111111
Cpu time for n = 7 is 0.005114416 seconds
-----Truth table of 8 inputs function -----
00000000
0000001
0000010
00000011
00000100
00000101
00000110
00000111
00001000
00001001
00001010
00001011
```

```
11110111
11111000
11111001
11111010
11111011
11111100
11111101
11111110
11111111
Cpu time for n = 8 is 0.008702441 seconds
-----Truth table of 9 inputs function -----
00000000
00000001
00000010
00000011
00000100
00000101
000000110
000000111
000001000
000001001
000001010
000001011
000001100
000001101
000001110
000001111
000010000
000010001
000010010
000010011
000010100
000010101
000010110
000010111
000011000
000011001
000011010
000011011
000011100
000011101
000011110
000011111
000100000
000100001
000100010
000100011
```

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111111010
111111011
111111100
111111101
111111110
111111111
-----Truth table of 10 inputs function -----
000000000
000000001
000000010
000000011
000000100
000000101
000000110
000000111
000001000
000001001
0000001010
000001011
0000001100
0000001101
0000001110
0000001111
0000010000
0000010001
0000010010
0000010011
0000010100
0000010101
0000010110
0000010111
0000011000
0000011001
0000011010
0000011011
0000011100
0000011101
0000011110
0000011111
0000100000
0000100001
0000100010
0000100011
0000100100
0000100101
0000100110
```

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1111010011
1111010100
1111010101
1111010110
1111010111
1111011000
1111011001
1111011010
1111011011
1111011100
1111011101
1111011110
1111011111
1111100000
1111100001
1111100010
1111100011
1111100100
1111100101
1111100110
1111100111
1111101000
1111101001
1111101010
1111101011
1111101100
1111101101
1111101110
1111101111
1111110000
1111110001
1111110010
1111110011
1111110100
1111110101
1111110110
1111110111
1111111000
1111111001
1111111010
1111111011
1111111100
1111111101
1111111110
1111111111
Cpu time for n = 10 is 0.013087411 seconds
-----Truth table of 11 inputs function ------
```

Cpu time for n = 11 is 4.62615E-4 seconds
Truth table of 12 inputs function
Cpu time for n = 12 is 7.33789E-4 seconds
Truth table of 13 inputs function
Cpu time for $n = 13$ is 0.001507839 seconds
Truth table of 14 inputs function
Cpu time for $n = 14$ is 0.002697532 seconds
Truth table of 15 inputs function
Cpu time for n = 15 is 0.003992221 seconds
Truth table of 16 inputs function
Cpu time for n = 16 is 0.006677122 seconds
Truth table of 17 inputs function
Cpu time for n = 17 is 0.007449198 seconds
Truth table of 18 inputs function
Cpu time for n = 18 is 0.019611775 seconds
Truth table of 19 inputs function
Cpu time for n = 19 is 0.040487056 seconds
Truth table of 20 inputs function
Cpu time for n = 20 is 0.075783513 seconds
Truth table of 21 inputs function
Cpu time for n = 21 is 0.11460997299999999 seconds
Truth table of 22 inputs function
Cpu time for n = 22 is 0.231302106 seconds
Truth table of 23 inputs function
Cpu time for n = 23 is 0.115080482 seconds
Truth table of 24 inputs function
Cpu time for n = 24 is 0.217586297 seconds
Truth table of 25 inputs function
Cpu time for n = 25 is 0.491175392 seconds
Truth table of 26 inputs function
Cpu time for n = 26 is 0.892527000000001 seconds
Truth table of 27 inputs function
Cpu time for n = 27 is 1.922949823 seconds
Truth table of 28 inputs function
Cpu time for n = 28 is 3.461834108 seconds
Truth table of 29 inputs function
Cpu time for n = 29 is 7.669382619 seconds
Truth table of 30 inputs function
Cpu time for n = 30 is 14.000821022 seconds
YOU CANNOT USE bigInteger class
Must use only basic java to solve this problem
Attach TruthTable.java and output of this program as a pdf file for full grade
TruthTable.java ends
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