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 3.4301300000000003E-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 6.690540000000001E-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

010100

010101

010110

010111

011000

011001

011010

011011

011100

011101

011110

011111

100000

100001

100010

100011

100100

100101

100110

100111

101000

101001

101010

101011

101100

101101

101110

101111

110000

110001

110010

110011

110100

110101

110110

110111

111000

111001

111010

111011

111100

111101

111110

111111

Cpu time for n = 6 is 0.002787134 seconds

------------Truth table of 7 inputs function --------------

0000000

0000001

0000010

0000011

0000100

0000101

0000110

0000111

0001000

0001001

0001010

0001011

0001100

0001101

0001110

0001111

0010000

0010001

0010010

0010011

0010100

0010101

0010110

0010111

0011000

0011001

0011010

0011011

0011100

0011101

0011110

0011111

0100000

0100001

0100010

0100011

0100100

0100101

0100110

0100111

0101000

0101001

0101010

0101011

0101100

0101101

0101110

0101111

0110000

0110001

0110010

0110011

0110100

0110101

0110110

0110111

0111000

0111001

0111010

0111011

0111100

0111101

0111110

0111111

1000000

1000001

1000010

1000011

1000100

1000101

1000110

1000111

1001000

1001001

1001010

1001011

1001100

1001101

1001110

1001111

1010000

1010001

1010010

1010011

1010100

1010101

1010110

1010111

1011000

1011001

1011010

1011011

1011100

1011101

1011110

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

00000001

00000010

00000011

00000100

00000101

00000110

00000111

00001000

00001001

00001010

00001011

00001100

00001101

00001110

00001111

00010000

00010001

00010010

00010011

00010100

00010101

00010110

00010111

00011000

00011001

00011010

00011011

00011100

00011101

00011110

00011111

00100000

00100001

00100010

00100011

00100100

00100101

00100110

00100111

00101000

00101001

00101010

00101011

00101100

00101101

00101110

00101111

00110000

00110001

00110010

00110011

00110100

00110101

00110110

00110111

00111000

00111001

00111010

00111011

00111100

00111101

00111110

00111111

01000000

01000001

01000010

01000011

01000100

01000101

01000110

01000111

01001000

01001001

01001010

01001011

01001100

01001101

01001110

01001111

01010000

01010001

01010010

01010011

01010100

01010101

01010110

01010111

01011000

01011001

01011010

01011011

01011100

01011101

01011110

01011111

01100000

01100001

01100010

01100011

01100100

01100101

01100110

01100111

01101000

01101001

01101010

01101011

01101100

01101101

01101110

01101111

01110000

01110001

01110010

01110011

01110100

01110101

01110110

01110111

01111000

01111001

01111010

01111011

01111100

01111101

01111110

01111111

10000000

10000001

10000010

10000011

10000100

10000101

10000110

10000111

10001000

10001001

10001010

10001011

10001100

10001101

10001110

10001111

10010000

10010001

10010010

10010011

10010100

10010101

10010110

10010111

10011000

10011001

10011010

10011011

10011100

10011101

10011110

10011111

10100000

10100001

10100010

10100011

10100100

10100101

10100110

10100111

10101000

10101001

10101010

10101011

10101100

10101101

10101110

10101111

10110000

10110001

10110010

10110011

10110100

10110101

10110110

10110111

10111000

10111001

10111010

10111011

10111100

10111101

10111110

10111111

11000000

11000001

11000010

11000011

11000100

11000101

11000110

11000111

11001000

11001001

11001010

11001011

11001100

11001101

11001110

11001111

11010000

11010001

11010010

11010011

11010100

11010101

11010110

11010111

11011000

11011001

11011010

11011011

11011100

11011101

11011110

11011111

11100000

11100001

11100010

11100011

11100100

11100101

11100110

11100111

11101000

11101001

11101010

11101011

11101100

11101101

11101110

11101111

11110000

11110001

11110010

11110011

11110100

11110101

11110110

11110111

11111000

11111001

11111010

11111011

11111100

11111101

11111110

11111111

Cpu time for n = 8 is 0.008702441 seconds

------------Truth table of 9 inputs function --------------

000000000

000000001

000000010

000000011

000000100

000000101

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

000100100

000100101

000100110

000100111

000101000

000101001

000101010

000101011

000101100

000101101

000101110

000101111

000110000

000110001

000110010

000110011

000110100

000110101

000110110

000110111

000111000

000111001

000111010

000111011

000111100

000111101

000111110

000111111

001000000

001000001

001000010

001000011

001000100

001000101

001000110

001000111

001001000

001001001

001001010

001001011

001001100

001001101

001001110

001001111

001010000

001010001

001010010

001010011

001010100

001010101

001010110

001010111

001011000

001011001

001011010

001011011

001011100

001011101

001011110

001011111

001100000

001100001

001100010

001100011

001100100

001100101

001100110

001100111

001101000

001101001

001101010

001101011

001101100

001101101

001101110

001101111

001110000

001110001

001110010

001110011

001110100

001110101

001110110

001110111

001111000

001111001

001111010

001111011

001111100

001111101

001111110

001111111

010000000

010000001

010000010

010000011

010000100

010000101

010000110

010000111

010001000

010001001

010001010

010001011

010001100

010001101

010001110

010001111

010010000

010010001

010010010

010010011

010010100

010010101

010010110

010010111

010011000

010011001

010011010

010011011

010011100

010011101

010011110

010011111

010100000

010100001

010100010

010100011

010100100

010100101

010100110

010100111

010101000

010101001

010101010

010101011

010101100

010101101

010101110

010101111

010110000

010110001

010110010

010110011

010110100

010110101

010110110

010110111

010111000

010111001

010111010

010111011

010111100

010111101

010111110

010111111

011000000

011000001

011000010

011000011

011000100

011000101

011000110

011000111

011001000

011001001

011001010

011001011

011001100

011001101

011001110

011001111

011010000

011010001

011010010

011010011

011010100

011010101

011010110

011010111

011011000

011011001

011011010

011011011

011011100

011011101

011011110

011011111

011100000

011100001

011100010

011100011

011100100

011100101

011100110

011100111

011101000

011101001

011101010

011101011

011101100

011101101

011101110

011101111

011110000

011110001

011110010

011110011

011110100

011110101

011110110

011110111

011111000

011111001

011111010

011111011

011111100

011111101

011111110

011111111

100000000

100000001

100000010

100000011

100000100

100000101

100000110

100000111

100001000

100001001

100001010

100001011

100001100

100001101

100001110

100001111

100010000

100010001

100010010

100010011

100010100

100010101

100010110

100010111

100011000

100011001

100011010

100011011

100011100

100011101

100011110

100011111

100100000

100100001

100100010

100100011

100100100

100100101

100100110

100100111

100101000

100101001

100101010

100101011

100101100

100101101

100101110

100101111

100110000

100110001

100110010

100110011

100110100

100110101

100110110

100110111

100111000

100111001

100111010

100111011

100111100

100111101

100111110

100111111

101000000

101000001

101000010

101000011

101000100

101000101

101000110

101000111

101001000

101001001

101001010

101001011

101001100

101001101

101001110

101001111

101010000

101010001

101010010

101010011

101010100

101010101

101010110

101010111

101011000

101011001

101011010

101011011

101011100

101011101

101011110

101011111

101100000

101100001

101100010

101100011

101100100

101100101

101100110

101100111

101101000

101101001

101101010

101101011

101101100

101101101

101101110

101101111

101110000

101110001

101110010

101110011

101110100

101110101

101110110

101110111

101111000

101111001

101111010

101111011

101111100

101111101

101111110

101111111

110000000

110000001

110000010

110000011

110000100

110000101

110000110

110000111

110001000

110001001

110001010

110001011

110001100

110001101

110001110

110001111

110010000

110010001

110010010

110010011

110010100

110010101

110010110

110010111

110011000

110011001

110011010

110011011

110011100

110011101

110011110

110011111

110100000

110100001

110100010

110100011

110100100

110100101

110100110

110100111

110101000

110101001

110101010

110101011

110101100

110101101

110101110

110101111

110110000

110110001

110110010

110110011

110110100

110110101

110110110

110110111

110111000

110111001

110111010

110111011

110111100

110111101

110111110

110111111

111000000

111000001

111000010

111000011

111000100

111000101

111000110

111000111

111001000

111001001

111001010

111001011

111001100

111001101

111001110

111001111

111010000

111010001

111010010

111010011

111010100

111010101

111010110

111010111

111011000

111011001

111011010

111011011

111011100

111011101

111011110

111011111

111100000

111100001

111100010

111100011

111100100

111100101

111100110

111100111

111101000

111101001

111101010

111101011

111101100

111101101

111101110

111101111

111110000

111110001

111110010

111110011

111110100

111110101

111110110

111110111

111111000

111111001

111111010

111111011

111111100

111111101

111111110

111111111

Cpu time for n = 9 is 0.011444181999999999 seconds

------------Truth table of 10 inputs function --------------

0000000000

0000000001

0000000010

0000000011

0000000100

0000000101

0000000110

0000000111

0000001000

0000001001

0000001010

0000001011

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

0000100111

0000101000

0000101001

0000101010

0000101011

0000101100

0000101101

0000101110

0000101111

0000110000

0000110001

0000110010

0000110011

0000110100

0000110101

0000110110

0000110111

0000111000

0000111001

0000111010

0000111011

0000111100

0000111101

0000111110

0000111111

0001000000

0001000001

0001000010

0001000011

0001000100

0001000101

0001000110

0001000111

0001001000

0001001001

0001001010

0001001011

0001001100

0001001101

0001001110

0001001111

0001010000

0001010001

0001010010

0001010011

0001010100

0001010101

0001010110

0001010111

0001011000

0001011001

0001011010

0001011011

0001011100

0001011101

0001011110

0001011111

0001100000

0001100001

0001100010

0001100011

0001100100

0001100101

0001100110

0001100111

0001101000

0001101001

0001101010

0001101011

0001101100

0001101101

0001101110

0001101111

0001110000

0001110001

0001110010

0001110011

0001110100

0001110101

0001110110

0001110111

0001111000

0001111001

0001111010

0001111011

0001111100

0001111101

0001111110

0001111111

0010000000

0010000001

0010000010

0010000011

0010000100

0010000101

0010000110

0010000111

0010001000

0010001001

0010001010

0010001011

0010001100

0010001101

0010001110

0010001111

0010010000

0010010001

0010010010

0010010011

0010010100

0010010101

0010010110

0010010111

0010011000

0010011001

0010011010

0010011011

0010011100

0010011101

0010011110

0010011111

0010100000

0010100001

0010100010

0010100011

0010100100

0010100101

0010100110

0010100111

0010101000

0010101001

0010101010

0010101011

0010101100

0010101101

0010101110

0010101111

0010110000

0010110001

0010110010

0010110011

0010110100

0010110101

0010110110

0010110111

0010111000

0010111001

0010111010

0010111011

0010111100

0010111101

0010111110

0010111111

0011000000

0011000001

0011000010

0011000011

0011000100

0011000101

0011000110

0011000111

0011001000

0011001001

0011001010

0011001011

0011001100

0011001101

0011001110

0011001111

0011010000

0011010001

0011010010

0011010011

0011010100

0011010101

0011010110

0011010111

0011011000

0011011001

0011011010

0011011011

0011011100

0011011101

0011011110

0011011111

0011100000

0011100001

0011100010

0011100011

0011100100

0011100101

0011100110

0011100111

0011101000

0011101001

0011101010

0011101011

0011101100

0011101101

0011101110

0011101111

0011110000

0011110001

0011110010

0011110011

0011110100

0011110101

0011110110

0011110111

0011111000

0011111001

0011111010

0011111011

0011111100

0011111101

0011111110

0011111111

0100000000

0100000001

0100000010

0100000011

0100000100

0100000101

0100000110

0100000111

0100001000

0100001001

0100001010

0100001011

0100001100

0100001101

0100001110

0100001111

0100010000

0100010001

0100010010

0100010011

0100010100

0100010101

0100010110

0100010111

0100011000

0100011001

0100011010

0100011011

0100011100

0100011101

0100011110

0100011111

0100100000

0100100001

0100100010

0100100011

0100100100

0100100101

0100100110

0100100111

0100101000

0100101001

0100101010

0100101011

0100101100

0100101101

0100101110

0100101111

0100110000

0100110001

0100110010

0100110011

0100110100

0100110101

0100110110

0100110111

0100111000

0100111001

0100111010

0100111011

0100111100

0100111101

0100111110

0100111111

0101000000

0101000001

0101000010

0101000011

0101000100

0101000101

0101000110

0101000111

0101001000

0101001001

0101001010

0101001011

0101001100

0101001101

0101001110

0101001111

0101010000

0101010001

0101010010

0101010011

0101010100

0101010101

0101010110

0101010111

0101011000

0101011001

0101011010

0101011011

0101011100

0101011101

0101011110

0101011111

0101100000

0101100001

0101100010

0101100011

0101100100

0101100101

0101100110

0101100111

0101101000

0101101001

0101101010

0101101011

0101101100

0101101101

0101101110

0101101111

0101110000

0101110001

0101110010

0101110011

0101110100

0101110101

0101110110

0101110111

0101111000

0101111001

0101111010

0101111011

0101111100

0101111101

0101111110

0101111111

0110000000

0110000001

0110000010

0110000011

0110000100

0110000101

0110000110

0110000111

0110001000

0110001001

0110001010

0110001011

0110001100

0110001101

0110001110

0110001111

0110010000

0110010001

0110010010

0110010011

0110010100

0110010101

0110010110

0110010111

0110011000

0110011001

0110011010

0110011011

0110011100

0110011101

0110011110

0110011111

0110100000

0110100001

0110100010

0110100011

0110100100

0110100101

0110100110

0110100111

0110101000

0110101001

0110101010

0110101011

0110101100

0110101101

0110101110

0110101111

0110110000

0110110001

0110110010

0110110011

0110110100

0110110101

0110110110

0110110111

0110111000

0110111001

0110111010

0110111011

0110111100

0110111101

0110111110

0110111111

0111000000

0111000001

0111000010

0111000011

0111000100

0111000101

0111000110

0111000111

0111001000

0111001001

0111001010

0111001011

0111001100

0111001101

0111001110

0111001111

0111010000

0111010001

0111010010

0111010011

0111010100

0111010101

0111010110

0111010111

0111011000

0111011001

0111011010

0111011011

0111011100

0111011101

0111011110

0111011111

0111100000

0111100001

0111100010

0111100011

0111100100

0111100101

0111100110

0111100111

0111101000

0111101001

0111101010

0111101011

0111101100

0111101101

0111101110

0111101111

0111110000

0111110001

0111110010

0111110011

0111110100

0111110101

0111110110

0111110111

0111111000

0111111001

0111111010

0111111011

0111111100

0111111101

0111111110

0111111111

1000000000

1000000001

1000000010

1000000011

1000000100

1000000101

1000000110

1000000111

1000001000

1000001001

1000001010

1000001011

1000001100

1000001101

1000001110

1000001111

1000010000

1000010001

1000010010

1000010011

1000010100

1000010101

1000010110

1000010111

1000011000

1000011001

1000011010

1000011011

1000011100

1000011101

1000011110

1000011111

1000100000

1000100001

1000100010

1000100011

1000100100

1000100101

1000100110

1000100111

1000101000

1000101001

1000101010

1000101011

1000101100

1000101101

1000101110

1000101111

1000110000

1000110001

1000110010

1000110011

1000110100

1000110101

1000110110

1000110111

1000111000

1000111001

1000111010

1000111011

1000111100

1000111101

1000111110

1000111111

1001000000

1001000001

1001000010

1001000011

1001000100

1001000101

1001000110

1001000111

1001001000

1001001001

1001001010

1001001011

1001001100

1001001101

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1101001111

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1111110000

1111110001

1111110010

1111110011

1111110100

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1111111101

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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 0.8925270000000001 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