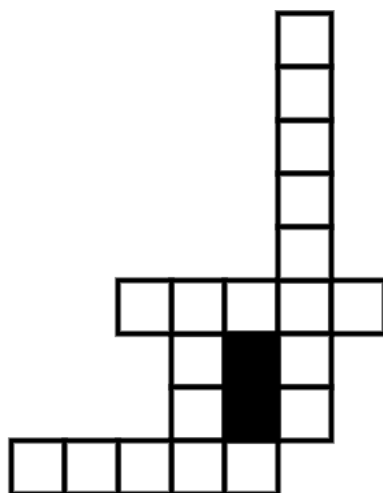# Basic

10 points

Basic 1

2023
32768
65536
52200625

11 points

Basic 2

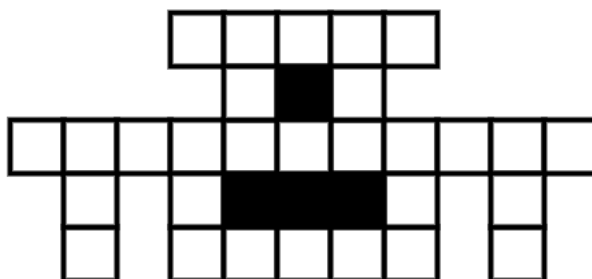251   252   352
353   354   451
12121   41212
24232513232

Compact

12 points

Compact 1

21 81 266 686
1614 1616
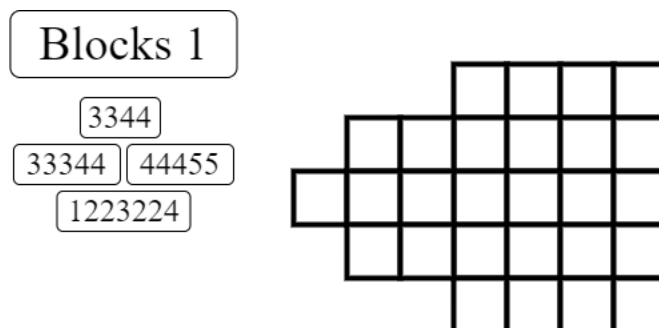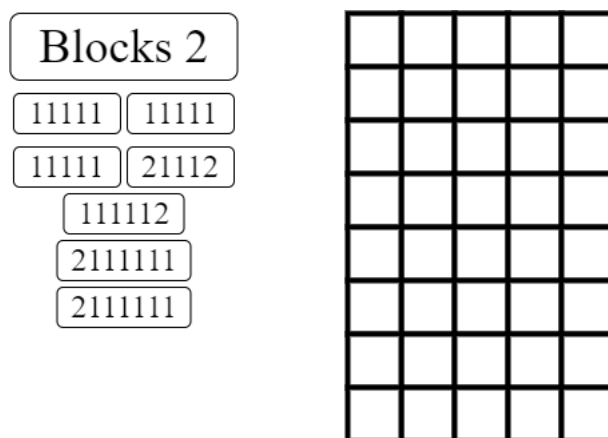1841 1862
2428 4282
6141 6261
8468

12 points

Compact 2

10053 20469
23083 34262
40879 43149
48460 65608
97608 99836

Blocks

11 points

Blocks 1

3344

33344 44455

1223224

12 points

Blocks 2

11111 11111

11111 21112

111112

2111111

2111111

15 points

Blocks 3

1130411 2230422

2233311 2244411

11444055522

33666044411

44111011166

55222022244

711555044433

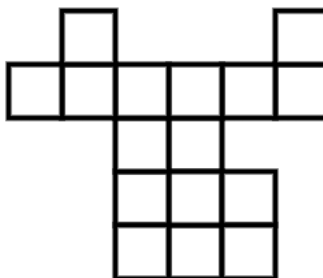722444066611

744222011166

755222011144
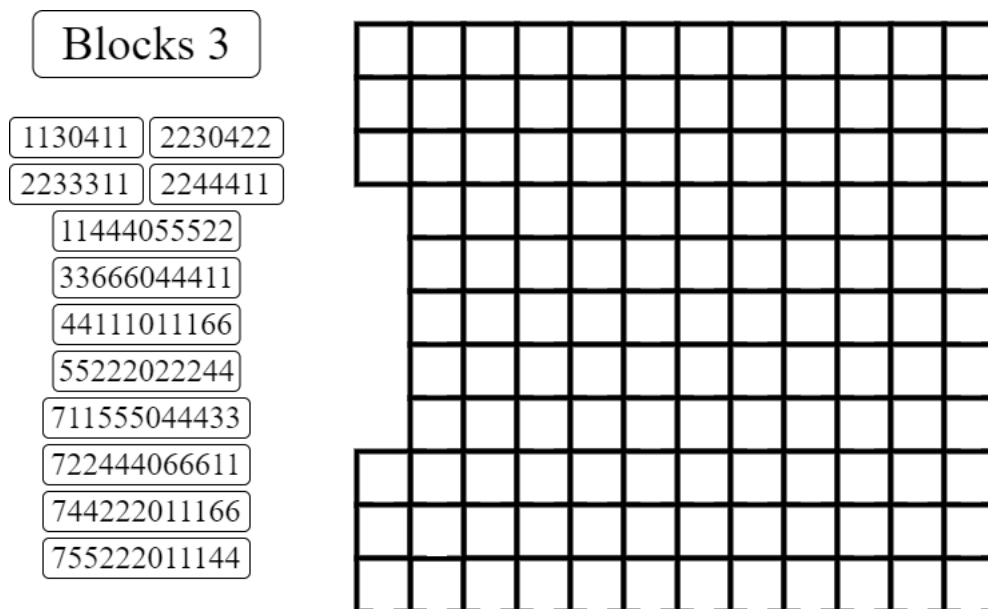
Minesweeper

11 points
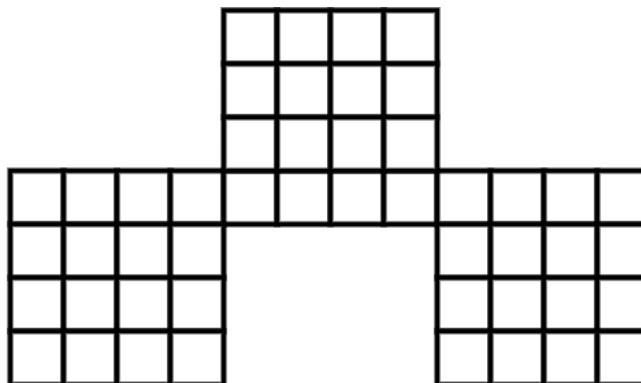
Minesweeper 1

10 21 90
229 912
119921

12 points
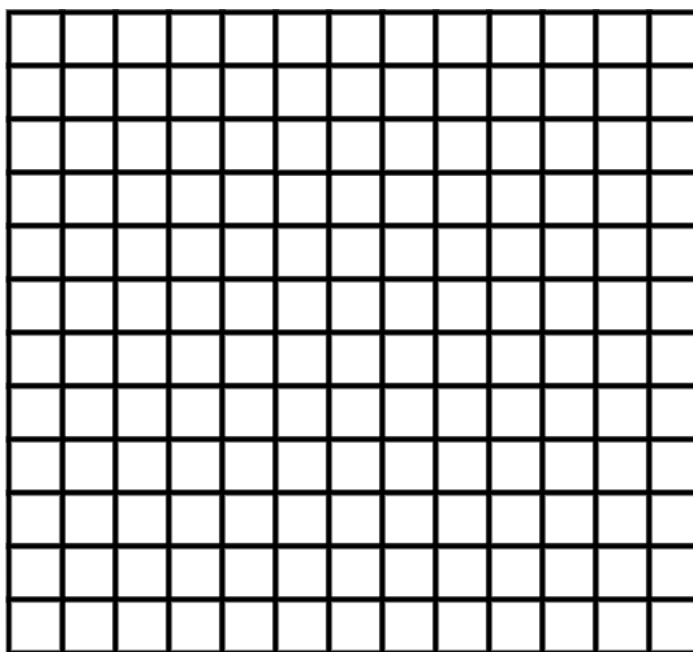
Minesweeper 2

09 14 42
66 92 99
190 296
1992 2999
9232 9999
222222222119

15 points

Minesweeper 3

01 02 02
10 14 14
29 92 536
924 4959
7544 74947
99567 6994993
7494942
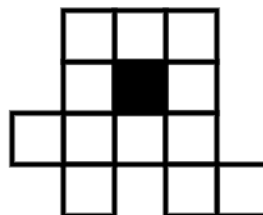2944999695
2499655996694

Reversible
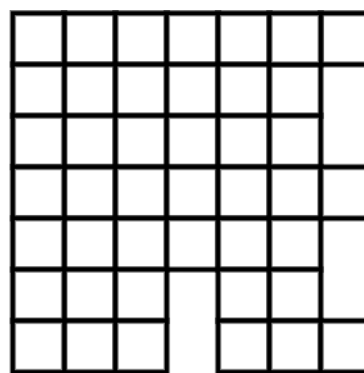
11 points

Reversible 1

26 246 0906
1086 2306

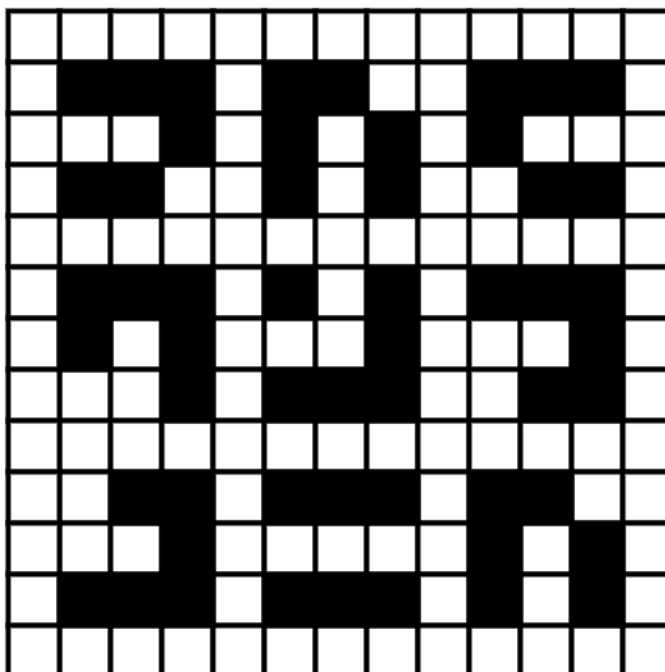**13 points**

Reversible 2

77 184 282 777
1005073 1706004
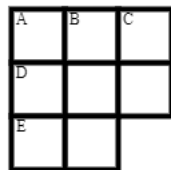1739483 2005004
6059506

14 points

Reversible 3

12 12 12
14 15 15
16 17 18 19
021 022 023
024 025 026
028 214 218
1812
02720 62029
1333211135554
1666377759992
1666544434442
1999377728884
2888577718883
2999122252223
3555133321114
3555244416664

Clues

11 points

Clues 1


```
A Across: A number with only even digits, in strictly descending order (3)
D Across: A number not divisible by 9 (3)
E Across: A number divisible by 11 (2)
A Down: A number with consecutive digits, in ascending order (3)
B Down: A number where the product of the lesser-valued two digits
        is equal to the largest digit (3)
C Down: A prime number greater than 10 (2)
```

14 points

Clues 2
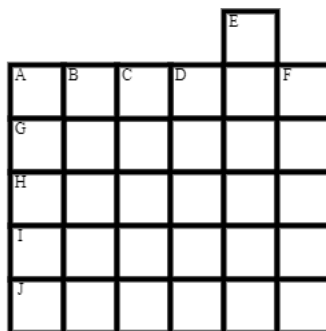

```
A Across: This palindrome is a multiple of 4
G Across: This odd number's digits are in strictly descending order
H Across: This number has exactly two distinct digits (4)
I Across: This number starts and ends with the same digit (4)
J Across: This number is the product of B Down's digits,
          and its leading digit is 2
A Down: This number only has even digits
B Down: The product of this number's digits has exactly 4 distinct
        prime factors
C Down: Each digit of this number is 2 more than some digit of D Down
D Down: Each digit of this number is 2 less than some digit of C Down
E Down: This number is less than 10, and the number of blocks in the grid
        is half of this number. (2)
F Down: Its digits are in strictly ascending order, and 4 of these
        digits do not appear in any other number in the grid (5)
```

16 points

Clues 3

A	B	C	D	E	F	G	H	I

A Down: The only number in this grid with every digit 0-9
B Down: The only number in this grid with repeated digits,
         with all 3 distinct odd digits placed above all 7 even digits
C Down: Adjacent pairs of digits of this number are not consecutive (7)
D Down: A perfect 8th power of a prime number (7)
E Down: The only number greater than 100 with only even digits (4)
F Down: A number with only prime digits (4)
G Down: 4 more than H Down, and the only number in this grid
         with a unique length (number of digits)
H Down: The only number in this grid that shares a prime factor
         with every other number in the grid (2)
I Down: An even number, and the only number in this grid filling
         squares that aren't filled by any other number (6)
Across: A factorial (2)
Across: A number whose digits don't appear in either the number
         immediately above it, or the number immediately below it (4)
Across: A number with only composite digits, with the first three digits
         forming a decreasing geometric sequence (4)
Across: A semiprime within 16 of both the number immediately above it,
         and the number immediately below it (2)
Across: An even number with three consecutive digits in ascending order,
         the smallest of which is larger than this number's length (6)
Across: The last four digits of this even number are present
         in reverse order in I Down, one of which is 5 (9)
Across: The only number in the grid greater than 100 with digits in
         descending order (4)
Across: The only number in the grid with a leading zero, and all of its
         nonzero digits form a consecutive set (7)
Across: The sum of the digits of the number immediately above it in the
     grid (2)

Across: This number ending in 2 has one pair of adjacent digits that are not coprime (9)