In-class Exercise:

Combinatorial Testing

a) List all of the 2-way (pairwise) combinations for the following input

|  |  |  |  |
| --- | --- | --- | --- |
| *x*1 | *x*2 | *x*3 | *x*4 |
| 0 | 3 | 6 | 9 |
| 1 | 4 | 7 | 10 |
| 2 | 5 | 8 | 11 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| (*x*1, *x*2) | (*x*1, *x*3) | (*x*1, *x*4) | (*x*2, *x*3) | (*x*2, *x*4) | (*x*3, *x*4) |
| (0, 3) | (0, 6) | (0, 9) | (3, 6) | (3, 9) | (6, 9) |
| (0, 4) | (0, 7) | (0, 10) | (3, 7) | (3, 10) | (6, 10) |
| (0, 5) | (0, 8) | (0, 11) | (3, 8) | (3, 11) | (6, 11) |
| (1, 3) | (1, 6) | (1, 9) | (4, 6) | (4, 9) | (7, 9) |
| (1, 4) | (1, 7) | (1, 10) | (4, 7) | (4, 10) | (7, 10) |
| (1, 5) | (1, 8) | (1, 11) | (4, 8) | (4, 11) | (7, 11) |
| (2, 3) | (2, 6) | (2, 9) | (5, 6) | (5, 9) | (8, 9) |
| (2, 4) | (2, 7) | (2, 10) | (5, 7) | (5, 10) | (8, 10) |
| (2, 5) | (2, 8) | (2, 11) | (5, 8) | (5, 11) | (8, 11) |

b) Generate a pairwise combinatorial test suite for the input above.  
No credit will be given for an exhaustive test suite.   
Also, the more test cases you generate, the fewer points you receive.

