HW 2-1 testcases

1. [X,Y] = [1, 25], n = 5 , (D1, D2, D3, D4, D5) = (11, 12, 13, 14, 15)

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| --- | --- | --- | --- | --- |
| 1 | 2 | 6 | 7 | 15 |
| 3 | 5 | 8 | 14 | 16 |
| 4 | 9 | 13 | 17 | 22 |
| 10 | 12 | 18 | 21 | 23 |
| 11 | 19 | 20 | 24 | 25 |

1. [X,Y] = [1, 49], n = 7 , (D1, D2, D3, D4, D5, D6, D7) = (23, 21, 19, 15, 18, 20, 22)

Answer = infeasible

1. [X,Y] = [5, 42], n = 6 , (D1, D2, D3, D4, D5, D6) = (23, 27, 21, 29, 14, 15)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 5 | 6 | 7 | 8 | 9 | 15 |
| 10 | 11 | 12 | 13 | 14 | 26 |
| 16 | 17 | 18 | 29 | 30 | 31 |
| 19 | 20 | 21 | 34 | 36 | 39 |
| 22 | 27 | 32 | 35 | 38 | 41 |
| 23 | 28 | 33 | 37 | 40 | 42 |

1. [X,Y] = [3, 60], n = 7 , (D1, D2, D3, D4, D5, D6, D7) = (15, 28, 30, 24, 33, 39, 9)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 10 | 16 | 17 | 18 | 31 | 39 | 50 |
| 11 | 19 | 20 | 21 | 33 | 51 | 52 |
| 12 | 22 | 23 | 24 | 46 | 53 | 54 |
| 13 | 25 | 30 | 41 | 47 | 55 | 56 |
| 14 | 28 | 42 | 43 | 48 | 57 | 58 |
| 15 | 40 | 44 | 45 | 49 | 59 | 60 |

1. [X,Y] = [4, 72], n = 8 , (D1, D2, D3, D4, D5, D6, D7, D8) = (43, 44, 39, 53, 49, 21, 27, 25)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 4 | 5 | 6 | 7 | 8 | 9 | 22 | 25 |
| 10 | 11 | 12 | 13 | 14 | 15 | 27 | 28 |
| 16 | 17 | 18 | 19 | 20 | 21 | 29 | 30 |
| 31 | 32 | 33 | 48 | 49 | 50 | 51 | 52 |
| 34 | 35 | 36 | 53 | 54 | 55 | 56 | 57 |
| 37 | 38 | 39 | 58 | 59 | 60 | 61 | 62 |
| 41 | 44 | 46 | 63 | 64 | 65 | 66 | 67 |
| 43 | 45 | 47 | 68 | 69 | 70 | 71 | 72 |

1. [X,Y] = [10, 92], n = 9 , (D1, D2, D3, D4, D5, D6, D7, D8, D9) = (48, 52, 51, 43, 38, 33, 58, 60, 61)

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10 | 11 | 12 | 13 | 14 | 15 | 56 | 59 | 61 |
| 16 | 17 | 18 | 19 | 20 | 21 | 57 | 60 | 62 |
| 22 | 23 | 24 | 25 | 26 | 27 | 58 | 63 | 64 |
| 28 | 29 | 30 | 31 | 32 | 33 | 65 | 66 | 67 |
| 34 | 35 | 36 | 37 | 38 | 39 | 68 | 69 | 70 |
| 40 | 41 | 42 | 43 | 44 | 45 | 71 | 72 | 73 |
| 46 | 50 | 51 | 74 | 75 | 76 | 77 | 78 | 79 |
| 47 | 52 | 53 | 80 | 81 | 82 | 83 | 84 | 85 |
| 48 | 54 | 55 | 86 | 87 | 88 | 89 | 90 | 92 |

1. [X,Y] = [1, 25], n = 5 , (D1, D2, D3, D4, D5) = (9, 18, 13, 14, 5)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 4 | 5 |
| 6 | 10 | 11 | 14 | 15 |
| 7 | 12 | 13 | 16 | 17 |
| 8 | 18 | 19 | 20 | 21 |
| 9 | 22 | 23 | 24 | 25 |

HW2-2 testcases

1. 2H 3H 5H 2D 3D 4D -> Tie. (4H 3H 5H = 5D 3D 4D)
2. 6C 8D 7S 7D 8H 9C -> Tie. (9C 8D 7S = 7D 8H 9C)
3. 4D 6C 4S 5H 7C 9D -> White wins. (5D 6C 4S< 8H 7C 9D)
4. 2C 5D 8S 2D 5H 9D -> White wins. (8C 5D 8S < 9D 5H 9D)
5. 7C 8D 8C 5C 6D 8S -> Black wins. (7C 8D 9C > 7C 6D 8S).
6. 2D 4S 6S 3D 4D 6D -> White wins. (5D 4S 6S < 5D 4D 6D)
7. 4S 2D 7S 9D 2C 9C -> Black wins. (4S 2D 3S > 9D 9C 9C)