Group Assignment

**Hubert Kyeremateng-Boateng**

**Fassil Fa-Yusuf**

|  |  |  |
| --- | --- | --- |
| 3 | 2 | 6 |
|  | 5 | 4 |
| 1 | 8 | 7 |

Actions:

* Blank moves up
* Blank moves down
* Blank moves left
* Blank moves right
* Wrap around top
* Wrap around left

**Solution:**

Level 1

|  |  |  |
| --- | --- | --- |
|  | 2 | 6 |
| 3 | 5 | 4 |
| 1 | 8 | 7 |

Blank moves up

|  |  |  |
| --- | --- | --- |
| 3 | 2 | 6 |
| 1 | 5 | 4 |
|  | 8 | 7 |

Blank moves down

|  |  |  |
| --- | --- | --- |
| 3 | 2 | 6 |
| 5 |  | 4 |
| 1 | 8 | 7 |

Blank moves right

|  |  |  |
| --- | --- | --- |
| 3 | 2 | 6 |
| 5 | 4 |  |
| 1 | 8 | 7 |

Wrap around left

**Level 2 – Level 1-Blank moves up**

|  |  |  |
| --- | --- | --- |
| 3 | 2 | 6 |
| 1 | 5 | 4 |
|  | 8 | 7 |

Wrap around top

|  |  |  |
| --- | --- | --- |
| 3 | 2 | 6 |
|  | 5 | 4 |
| 1 | 8 | 7 |

Blank moves down

|  |  |  |
| --- | --- | --- |
| 2 |  | 6 |
| 3 | 5 | 4 |
| 1 | 8 | 7 |

Blank moves right

|  |  |  |
| --- | --- | --- |
| 2 | 6 |  |
| 3 | 5 | 4 |
| 1 | 8 | 7 |

Wrap around left

**Level 2 – Level 1 - Blank moves down**

|  |  |  |
| --- | --- | --- |
| 3 | 2 | 6 |
|  | 5 | 4 |
| 1 | 8 | 7 |

Blank moves up

|  |  |  |
| --- | --- | --- |
| 3 | 2 | 6 |
| 1 | 5 | 4 |
| 8 |  | 7 |

Blank moves right

|  |  |  |
| --- | --- | --- |
| 3 | 2 | 6 |
| 1 | 5 | 4 |
| 8 | 7 |  |

Wrap around left

|  |  |  |
| --- | --- | --- |
|  | 2 | 6 |
| 3 | 5 | 4 |
| 1 | 8 | 7 |

Wrap around top

Level 2 – Level 1 – Wrap around left

|  |  |  |
| --- | --- | --- |
| 3 | 2 | 6 |
| 5 | 4 | 7 |
| 1 | 8 |  |

Blank moves down

|  |  |  |
| --- | --- | --- |
| 3 | 2 |  |
| 5 | 4 | 6 |
| 1 | 8 | 7 |

Blank moves top

|  |  |  |
| --- | --- | --- |
| 3 | 2 | 6 |
|  | 5 | 4 |
| 1 | 8 | 7 |

Wrap around left

|  |  |  |
| --- | --- | --- |
| 3 | 2 | 6 |
| 5 |  | 4 |
| 1 | 8 | 7 |

Blank moves right

Level 2 – Level 1 Blank moves right

|  |  |  |
| --- | --- | --- |
| 3 | 2 | 6 |
|  | 5 | 4 |
| 1 | 8 | 7 |

Blank moves right

|  |  |  |
| --- | --- | --- |
| 3 | 2 | 6 |
| 5 |  | 4 |
| 1 | 8 | 7 |

Blank moves left

|  |  |  |
| --- | --- | --- |
| 3 |  | 6 |
| 5 | 2 | 4 |
| 1 | 8 | 7 |

Blank moves top

|  |  |  |
| --- | --- | --- |
| 3 | 2 | 6 |
| 5 | 8 | 4 |
| 1 |  | 7 |

Blank moves down