# partition [0,9]

pivot:=7

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | 5 | 13 | **7** | 1 | 2 | 8 | 30 | 3 | 12 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | 5 | 13 | 12 | 1 | 2 | 8 | 30 | 3 | ~~12~~ |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | 5 | 1 | 12 | 13 | 2 | 8 | 30 | 3 | ~~12~~ |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | 5 | 1 | 2 | 13 | 12 | 8 | 30 | 3 | ~~12~~ |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | 5 | 1 | 2 | 3 | 12 | 8 | 30 | 13 | ~~12~~ |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | 5 | 1 | 2 | 3 | **7** | 8 | 30 | 13 | 12 |

# partition [0,4]

pivot:=7

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **7** | 5 | 1 | 2 | 3 | 7 | 8 | 30 | 13 | 12 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 3 | 5 | 1 | 2 | ~~3~~ | 7 | 8 | 30 | 13 | 12 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 3 | 5 | 1 | 2 | **7** | 7 | 8 | 30 | 13 | 12 |

# partition [0,3]

pivot:=1

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 3 | 5 | **1** | 2 | 7 | 7 | 8 | 30 | 13 | 12 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 3 | 5 | 2 | ~~2~~ | 7 | 7 | 8 | 30 | 13 | 12 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | 5 | 2 | 3 | 7 | 7 | 8 | 30 | 13 | 12 |

# partition [1,3]

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 5 | **2** | 3 | 7 | 7 | 8 | 30 | 13 | 12 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 5 | 3 | ~~3~~ | 7 | 7 | 8 | 30 | 13 | 12 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | **2** | 3 | 5 | 7 | 7 | 8 | 30 | 13 | 12 |

# partition [2,3] (nincs ’igazi’ csere)

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 2 | **3** | 5 | 7 | 7 | 8 | 30 | 13 | 12 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 2 | 5 | ~~5~~ | 7 | 7 | 8 | 30 | 13 | 12 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 2 | **3** | 5 | 7 | 7 | 8 | 30 | 13 | 12 |

# partition [6,9]

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 5 | 7 | 7 | 8 | **30** | 13 | 12 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 5 | 7 | 7 | 8 | 12 | 13 | ~~12~~ |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 5 | 7 | 7 | 8 | 12 | 13 | **30** |

# partition [6,8]

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 5 | 7 | 7 | **8** | 12 | 13 | 30 |

A 8 helyére bekerül a 13, majd visszakerül az kiinduló helyére, utána a 8 visszakerül a kiinduló helyére, hasonlóan a *partition[2,3]* részhez.

# partition [7,8]

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 5 | 7 | 7 | 8 | **12** | 13 | 30 |

A 12 helyére bekerül a 13, majd visszakerül az kiinduló helyére, utána a 12 visszakerül a kiinduló helyére, hasonlóan a *partition[2,3]* részhez.

# A rendezett tömb:

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 5 | 7 | 7 | 8 | 12 | 13 | 30 |

A rendezéshez használt algoritmus az előadás jegyzet 5.2 fejezetében tárgyalt Gyorsrendező algoritmus.