

| FIFO         | Laphivatkozás |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Memóriakeret | 7             | 6 | 5 | 4 | 6 | 7 | 3 | 2 | 6 | 7 | 6 | 5 | 1 | 2 | 5 | 6 | 7 | 6 |
| 1.lap        | 7             | 7 | 7 | 4 | " | 4 | 4 | 2 | 2 | 2 |   | 5 | 5 | 5 |   | 6 | 6 |   |
| 2.lap        |               | 6 | 6 | 6 | " | 7 | 7 | 7 | 6 | 6 |   | 6 | 1 | 1 |   | 1 | 7 |   |
| 3.lap        |               |   | 5 | 5 | " | 5 | 3 | 3 | 3 | 7 |   | 7 | 7 | 2 |   | 2 | 2 |   |
| FIFO         | 7             | 6 | 5 | 4 |   | 7 | 3 | 2 | 6 | 7 |   | 5 | 1 | 2 |   | 6 | 7 |   |

Laphiba: 16

| LRU          | Laphivatkozás |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Memóriakeret | 7             | 6 | 5 | 4 | 6 | 7 | 3 | 2 | 6 | 7 | 6 | 5 | 1 | 2 | 5 | 6 | 7 | 6 |
| 1.lap        | 7             | 7 | 7 | 4 |   | 4 | 3 | 3 | 3 | 7 |   | 7 | 1 | 1 |   | 6 | 6 |   |
| 2.lap        |               | 6 | 6 | 6 |   | 6 | 6 | 2 | 2 | 2 |   | 5 | 5 | 5 |   | 5 | 5 |   |
| 3.lap        |               |   | 5 | 5 |   | 7 | 7 | 7 | 6 | 6 |   | 6 | 6 | 2 |   | 2 | 7 |   |

Laphiba: 15

| SC           | Laphivatkozás |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|--------------|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Memóriakeret | 7             | 6   | 5   | 4   |     |     |     | 6   | 7   | 3   | 2   | 6   | 7   | 6   | 5   | 1   | 2   | 5   |
| 1.lap        | 7.1           | 7.1 | 7.1 | 7   | 7   | 7   | 4.1 | 4.1 | 4.1 | 4   | 2.1 | 2.1 | 2   | 2   | 5.1 | 5.1 | 5   | 5.1 |
| 2.lap        |               | 6.1 | 6.1 | 6.1 | 6   | 6   | 6   | 6.1 | 6   | 3.1 | 3.1 | 3   | 7.1 | 7.1 | 7.1 | 7   | 2.1 | 2.1 |
| 3.lap        |               |     | 5.1 | 5.1 | 5.1 | 5   | 5   | 5   | 7.1 | 7.1 | 7   | 6.1 | 6.1 | 6.1 | 6   | 1.1 | 1.1 | 1.1 |
| FIFO         |               |     | 765 | 657 | 576 | 765 | 654 | 654 | 467 | 743 | 372 | 236 | 627 | 627 | 765 | 571 | 152 | 152 |

Laphiba: 17

| Gyakorló feladatok |               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------------|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FIFO               | Laphivatkozás |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Memóriakeret       | 5             | 4 | 3 | 2 | 4 | 5 | 1 | 7 | 4 | 5 | 4 | 3 | 6 | 7 | 3 | 4 | 5 | 4 |
| 1.lap              | 5             | 5 | 5 | 2 |   | 2 | 2 | 7 | 7 | 7 |   | 3 | 3 | 3 |   | 4 | 4 |   |
| 2.lap              |               | 4 | 4 | 4 |   | 5 | 5 | 5 | 4 | 4 |   | 4 | 6 | 6 |   | 6 | 5 |   |
| 3.lap              |               |   | 3 | 3 |   | 3 | 1 | 1 | 1 | 5 |   | 5 | 5 | 7 |   | 7 | 7 |   |
| FIFO               | 5             | 4 | 3 | 2 | 5 | 1 | 7 | 4 | 5 | 3 | 6 | 7 | 4 | 5 | 3 | 7 |   |   |

Laphiba: 16

| LRU          | Laphivatkozás |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Memóriakeret | 5             | 4 | 3 | 2 | 4 | 5 | 1 | 7 | 4 | 5 | 4 | 3 | 6 | 7 | 3 | 4 | 5 | 4 |
| 1.lap        | 5             | 5 | 5 | 2 |   | 2 | 1 | 1 | 1 | 5 |   | 5 | 6 | 6 |   | 4 | 4 |   |
| 2.lap        |               | 4 | 4 | 4 |   | 4 | 4 | 7 | 7 | 7 |   | 3 | 3 | 3 |   | 3 | 3 |   |
| 3.lap        |               |   | 3 | 3 |   | 5 | 5 | 5 | 4 | 4 |   | 4 | 4 | 7 |   | 7 | 5 |   |

Laphiba: 15

| SC           | Laphivatkozás |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|--------------|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Memóriakeret | 5             | 4   | 3   | 2   | 4   | 5   | 1   | 7   | 4   | 5   | 4   | 3   | 6   | 7   | 3   | 4   | 5   | 4   |
| 1.lap        | 5.1           | 5.1 | 5.1 | 2.1 | 2.1 | 2.1 | 2   | 7.1 | 7.1 | 7   | 7   | 3.1 | 3.1 | 3   | 3.1 | 3   | 5.1 | 5.1 |
| 2.lap        |               | 4.1 | 4.1 | 4   | 4.1 | 4   | 1.1 | 1.1 | 1   | 5.1 | 5.1 | 5.1 | 5   | 7.1 | 7.1 | 7   | 7   | 7   |
| 3.lap        |               |     | 3.1 | 3   | 3   | 5.1 | 5.1 | 5   | 4.1 | 4.1 | 4.1 | 4   | 6.1 | 6.1 | 6.1 | 4.1 | 4.1 | 4.1 |
| FIFO         |               |     | 543 | 432 | 432 | 245 | 521 | 157 | 714 | 475 | 475 | 543 | 356 | 637 | 637 | 374 | 743 | 743 |

Laphiba: 16

| OPT          | Laphivatkozás |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|--------------|---------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Memóriakeret | 5             | 4 | 3 | 2 | 4 | 5 | 1 | 7 | 4 | 5 | 4 | 3 | 6 | 7 | 3 | 4 | 5 | 4 |
| 1.lap        | 5             | 5 | 5 | 5 |   |   | 5 | 5 |   |   |   | 3 | 3 |   |   | 3 | 3 |   |
| 2.lap        |               | 4 | 4 | 4 |   |   | 4 | 4 |   |   |   | 4 | 6 |   |   | 4 | 4 |   |

|            |  |  |   |     |  |  |     |     |  |  |  |     |     |  |  |     |     |  |
|------------|--|--|---|-----|--|--|-----|-----|--|--|--|-----|-----|--|--|-----|-----|--|
| 3.lap      |  |  | 3 | 2   |  |  | 1   | 7   |  |  |  | 7   | 7   |  |  | 7   | 5   |  |
| Laphiba:10 |  |  |   | 543 |  |  | 542 | 541 |  |  |  | 547 | 347 |  |  | 367 | 347 |  |

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|---|---|
|   |   |
| 5 | 2 |
| 6 | 2 |
| 7 | 7 |
| 5 | 5 |
| 5 | 2 |

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| 5 | 2 |
|   | 6 |
|   | 5 |
|   | 2 |

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|     |     |     |     |     |
| 6   | 7   | 6   | 5   | 2   |
| 5   | 7.1 | 7.1 | 7.1 | 7   |
| 2   | 2   | 2   | 5.1 | 5   |
| 6.1 | 6.1 | 6.1 | 6.1 | 2.1 |
| 526 | 267 | 267 | 675 | 752 |

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|   |   |  |  |  |
|   |   |  |  |  |
| 3 | 7 |  |  |  |
| 4 | 7 |  |  |  |
| 5 | 5 |  |  |  |
| 3 | 3 |  |  |  |
|   |   |  |  |  |

|   |   |  |  |  |
|---|---|--|--|--|
|   |   |  |  |  |
| 3 | 7 |  |  |  |
|   | 4 |  |  |  |
|   | 3 |  |  |  |
|   | 7 |  |  |  |

|     |     |
|-----|-----|
|     |     |
| 3   | 7   |
| 5.1 | 5   |
| 3.1 | 3   |
| 4.1 | 7.1 |
| 453 | 457 |

|   |   |
|---|---|
|   |   |
| 3 | 7 |
|   | ? |
|   | ? |

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|--|-----|
|  | ?   |
|  | 345 |