|  |  |  |  |
| --- | --- | --- | --- |
|  | **4**  **10 30 10 5**  **3 3 4**  **10 10 10**  **5 5**  **5**  **2 6** | **The people successfully repulsed the orc**'**s attack.**  **Plates left: 2** | * First wave (3 3 4):   + Orc (4) attacks Plate (10) => dies and plate is now 6.   + Orc (3) attacks Plate (6) => dies and plate is now 3.   + Orc (3) attacks Plater (3) => dies and plate is gone. * Second wave (10 10 10):   + Orc (10) attacks Plate (30) => dies and plate is now 20.   + Orc (10) attacks Plate (20) => dies and plate is now 10.   + Orc (10) attacks Plate (10) => dies and plate is gone. * Third wave (5 5):   + People build a new plate (5), plates are now: 10 5   + Orc (5) attacks Plate (10) => dies and plate is now 5.   + Orc (5) attacks Plate (5) => dies and plate is gone. * Fourth wave (2 6):   + Orc (6) attacks Plate (5) => the orc is now 1 and the plate is gone.   + Orc (now 1) attacks Plate (5) => dies and plate is now 4.   + Orc (2) attacks Plate (now 4) => dies and plate is now 2. * We have no more waves and one plate left (2) => see the output. |
|  | **5**  **10 30 10 5**  **3 3 4**  **10 10 10**  **5 5**  **5**  **7 6**  **8 6 7** | **The orcs successfully destroyed the Gondor**'**s defense.**  **Orcs left: 3** | * First wave (3 3 4):   + Orc (4) attacks Plate (10) => dies and plate is now 6.   + Orc (3) attacks Plate (6) => dies and plate is now 3.   + Orc (3) attacks Plater (3) => dies and plate is gone. * Second wave (10 10 10):   + Orc (10) attacks Plate (30) => dies and plate is now 20.   + Orc (10) attacks Plate (20) => dies and plate is now 10.   + Orc (10) attacks Plate (10) => dies and plate is gone. * Third wave (5 5):   + People build a new plate (5), plates are now: 10 5   + Orc (5) attacks Plate (10) => dies and plate is now 5.   + Orc (5) attacks Plate (5) => dies and plate is gone. * Fourth wave (7 6):   + Orc (6) attacks Plate (5) => the orc is now 1 and the plate is gone.   + Orc (now 1) attacks Plate (5) => dies and plate is now 4.   + Orc (7) attacks Plate (now 4) => the orc is now 3 and the plate is gone. * We have no more plates, so the waves stop coming => see the output. Also, we stop the input. (8 6 7 is not proceeded, but is in the input because the waves are 5) |
|  | **4**  **10 30 10 5**  **3 3 4**  **10 10 10**  **5 5**  **5**  **7 6** | **The orcs successfully destroyed the Gondor**'**s defense.**  **Orcs left: 3** | * First wave (3 3 4):   + Orc (4) attacks Plate (10) => dies and plate is now 6.   + Orc (3) attacks Plate (6) => dies and plate is now 3.   + Orc (3) attacks Plater (3) => dies and plate is gone. * Second wave (10 10 10):   + Orc (10) attacks Plate (30) => dies and plate is now 20.   + Orc (10) attacks Plate (20) => dies and plate is now 10.   + Orc (10) attacks Plate (10) => dies and plate is gone. * Third wave (5 5):   + People build a new plate (5), plates are now: 10 5   + Orc (5) attacks Plate (10) => dies and plate is now 5.   + Orc (5) attacks Plate (5) => dies and plate is gone. * Fourth wave (7 6):   + Orc (6) attacks Plate (5) => the orc is now 1 and the plate is gone.   + Orc (now 1) attacks Plate (5) => dies and plate is now 4.   + Orc (7) attacks Plate (now 4) => the orc is now 3 and the plate is gone. |
|  |  |  |  |

### Examples

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| --- | --- | --- |
| **Input** | **Output** | **Comment** |
| **3**  **10 20 30**  **4 5 1**  **10 5 5**  **10 10 10**  **4** | **The people successfully repulsed the orc**'**s attack.**  **Plates left: 4** | * First wave (4 5 1):   + Orc (1) attacks Plate (10) => dies and plate is now 9.   + Orc (5) attacks Plate (9) => dies and plate is now 4.   + Orc (4) attacks Plater (4) => dies and plate is gone. * Second wave (10 5 5):   + Orc (5) attacks Plate (20) => dies and plate is now 15.   + Orc (5) attacks Plate (15) => dies and plate is now 10.   + Orc (10) attacks Plate (10) => dies and plate is gone. * Third wave (10 10 10):   + People build a new plate (4), plates are now: 30 4   + Orc (10) attacks Plate (30) => dies and plate is now 20.   + Orc (10) attacks Plate (20) => dies and plate is now 10.   + Orc (10) attacks Plate (10) => dies and plate is gone. * We have no more waves and one plate left (4) => see the output. |
| **5**  **10 30 10**  **3 3 4**  **10 10 10**  **5 5**  **5**  **7 6**  **8 6 7** | **The orcs successfully destroyed the Gondor**'**s defense.**  **Orcs left: 1, 7** | * First wave (3 3 4):   + Orc (4) attacks Plate (10) => dies and plate is now 6.   + Orc (3) attacks Plate (6) => dies and plate is now 3.   + Orc (3) attacks Plater (3) => dies and plate is gone. * Second wave (10 10 10):   + Orc (10) attacks Plate (30) => dies and plate is now 20.   + Orc (10) attacks Plate (20) => dies and plate is now 10.   + Orc (10) attacks Plate (10) => dies and plate is gone. * Third wave (5 5):   + People build a new plate (5), plates are now: 10 5   + Orc (5) attacks Plate (10) => dies and plate is now 5.   + Orc (5) attacks Plate (5) => dies and plate is gone. * Fourth wave (7 6):   + Orc (6) attacks Plate (5) => the orc is now 1 and the plate is gone. * We have no more plates, so the waves stop coming => see the output. Also, we stop the input. (8 6 7 is not proceeded, but is in the input because the waves are 5) |