# Fortress Fall

| | |
|---|---|
| Input file: | `standard input` |
| Output file: | `standard output` |
| Time limit: | 1 second |
| Memory limit: | 1024 megabytes |

Please refer to the statements in the attachment files

## Input

Please refer to the statements in the attachment files

## Output

Please refer to the statements in the attachment files

## Example

| standard input | standard output |
|---|---|
| 6 | 35 |
| 4 1 2 | 56 |
| 4 5 6 7 | 0 |
| 5 2 8 | 23 |
| 0 -1 -2 -6 7 | 23 |
| 6 -1 -2 | 165 |
| 1 2 3 4 5 6 | |
| 6 3 4 | |
| -1 0 0 1 2 3 | |
| 6 -3 -4 | |
| 1 0 0 -1 -2 -3 | |
| 5 1 -10 | |
| -9 2 -5 3 -7 | |

## Note

Please refer to the statements in the attachment files