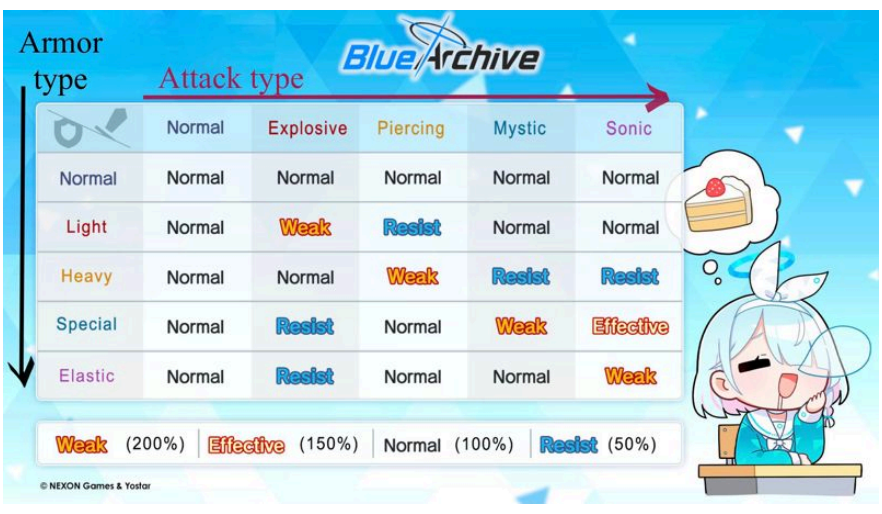
[CS 11 25.1] HOPE 1 A3 – Strategic Planning

Cheatsheet is available here: https://oj.dcs.upd.edu.ph/cs11cheatsheet/

Problem Statement

How do you get good at strategy games? First and foremost, by familiarizing yourself with the mechanics!

The following is the *synergy chart* for a certain game:



Each entity in this game has an *attack type* and an *armor type*, and depending on the synergy between an attacker's attack type and a defender's armor type, a certain multiplier gets applied to get the final damage.

Given an attacker's attack type and a defender's armor type, determine the multiplier applied to get the final damage.

Task Details

Your task is to implement a function named `synergy`. This function has two parameters, both of which are strings:

- The first string denotes the attacker's attack type.
- The second string denotes the defender's armor type.

The function must return the multiplier applied. This should be one of four strings:

- `Resist`
- `Normal`
- `Weak`
- `Effective`

Restrictions

- Recursion is **disallowed**.
- Comprehensions are **disallowed**.
- Your source code must have at most 1200 bytes.

Examples

Example 1 Function Call

```
synergy("Mystic", "Light")
```

Copy

Example 1 Return Value

```
"Normal"
```

Copy

Example 2 Function Call

```
synergy("Sonic", "Special")
```

Copy

Example 2 Return Value

```
"Effective"
```

Copy

Constraints

- The function `synergy` will be called at most 200 times.
- The attack type is one of `Normal`, `Explosive`, `Piercing`, `Mystic`, and `Sonic`.
- The armor type is one of `Normal`, `Light`, `Heavy`, `Special`, and `Elastic`.

Scoring

Note: New tests may be added and all submissions may be rejudged at a later time. (All future tests will satisfy the constraints.)

- You get 25 ❤️ points if you solve all test cases where:
  - The attack type is not `Sonic`.
  - The armor type is not `Elastic`.
- You get 100 🔴 points if you solve all test cases.

Clarifications

Report an issue

No clarifications have been made at this time.

Submit solution [CS 11 25.1] HOPE 1

My submissions

Points: 125 (partial)
Time limit: 12.0s
Memory limit: 2G

Problem type

Allowed languages
py3