The story

Once upon a time there was a great hero, called Orderus, with some strengths and weaknesses, as all

heroes have.

After battling all kinds of monsters for more than a hundred years, Orderus now has the following

• Health: 70 - 100

• Strength: 70 - 80

• Defence: 45 – 55

● Speed: 40 – 50

• Luck: 10% - 30% (0% means no luck, 100% lucky all the time).

Also, he possesses 2 skills:

• Rapid strike: Strike twice while it's his turn to attack; there's a 10% chance he'll use this skill

every time he attacks

• Magic shield: Takes only half of the usual damage when an enemy attacks; there's a 20%

change he'll use this skill every time he defends.

Gameplay

As Orderus walks the ever-green forests of Emagia, he encounters some wild beasts, with the

following properties:

• Health: 60 - 90

• Strength: 60 - 90

● Defence: 40 - 60

● Speed: 40 – 60

• Luck: 25% - 40%

You'll have to simulate a battle between Orderus and a wild beast, either at command line or using a web browser. On every battle, Orderus and the beast must be initialized with random

properties, within their ranges.

The first attack is done by the player with the higher speed. If both players have the same speed, than

the attack is carried on by the player with the highest luck. After an attack, the players switch roles:

the attacker now defends and the defender now attacks.

The damage done by the attacker is calculated with the following formula:

<u>Damage = Attacker strength – Defender defence</u>

The damage is subtracted from the defender's health. An attacker can miss their hit and do no damage if the defender gets lucky that turn.

Orderus' skills occur randomly, based on their chances, so take them into account on each turn.

Game over

The game ends when one of the players remain without health or the number of turns reaches 20.

The application must output the results each turn: what happened, which skills were used (if any), the damage done, defender's health left.

If we have a winner before the maximum number of rounds is reached, he must be declared

Rules

Aincrad is a land where magic does happen. Still, for this magic to work, you'll have to follow these rules:

- Write code in Node.js, without any frameworks
- Make sure your application is decoupled, code reusable and scalable. For example, can a new skill easily be added to our hero easily?
- Is your code bug-free and tested?