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MSc Game design

Performance of Different Class and Race combination in D&D 5e

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Abstract

This dissertation will focus on a table role play game, Dungeons and Dragons 5th edition, and using programmers to simulate gameplay to find if there are any

unbalanced elements in the game. Ability check, weapons' damage rate, and saving

throw will be tested at the version v1.0. 12 Races and 14 Classes compose 168 different

combinations will be tested at the programmer version v2.2, which analyses from three

respects, exploration, social interaction, and combat. All code and test result can be

found at the GitHub (link: https://github.com/fvictorique/CE901-D-D-5e-Balance-Test). For

that important information, which will affect analyses, will be contained in the

dissertation inside the paragraphs or at the index. The result shows that class Fighter

and Rogue, race Half-Orc, Halfling: Stout, and Halfling: Lightfoot shows better

performance than others. However, class Wizard and Sorcerer, race Half-Elf, Human,

Dragonborn, and Gnome: Forest Gnome are weak at this test. The reason is varied and

may because of the lack of the test system or may because of the class or race's unique

capability. For the future, the programmer could be improved, by adding more functions

and data; then the improved one might do better in analyzing the result and make it

more believable.

Key words: Dungeons and Dragons, Dice, Table Role Playing Games