**SimpleLoader: An ELF Loader in C from Scratch**

**Contributions:**

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**GitHub Repository:** [**https://github.com/YashVerma-251103/OS/tree/main**](https://github.com/YashVerma-251103/OS/tree/main)

**Implementation (With Bonus):**

* The SimpleLoader opens a given ELF file and reads the content into memory then parses the ELF Header into Elf32\_Ehdr format and Program Headers into Elf32\_Phdr format.
* It goes through the Program Headers to find a Loadable Program segment containing the program entry point by checking the starting and ending points of the Program segment.
* It allocates memory for the chosen program segment and then copies the content of the program segment onto that allocated memory.
* It skips the byte difference between the starting address of program segment and starting address of program entry.
* At last, it typecasts the remaining part to int and prints the output.