

Rain VM Code Format

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In Rain VM, each word is composed of 4 bytes. Words are represented in big-endian format.

1. How programs are executed

The first byte of an input program denotes the byte version. There is a correspondence between byte versions and dominant versions.

Byte Version	Dominant Version
0	unused
1	0.1.0

If the dominant version of the first byte does not match the version of Rain VM, the execution of the program halts.

If the version check passed, the body of the program is executed. The first 4 bytes of the body (that is, the second byte to the fifth byte of the program) will be decoded as a 4-byte integer and placed into the result register, R0. The result register is a special register whose content is treated as the output of the execution. After reading the first byte of the body, the execution ends successfully.