Assembler

Описание главного теста

Есть 2 массива чисел $A = 32, 64, 128, 256, 512$, $B = 1, 2, 3, 4, 5$, хранящиеся подряд в ячейках памяти с номерами с 100 по 110. К массиву A применяется операция $A[i] = A[i] >> B[i]$. Конечное ожидаемое состояние массивов: $A = 16, 16, 16, 16, 16$,


```
pytest test_solution.py -vvv
```

Запуск главного теста и результаты

```
python assembler.py program.asm program.bin program_log.yaml
```

```
python interpreter.py program.bin result.yaml 100 110
```

```
(3.12.5) user@user-System-Product-Name:~/mirea/assembler$ python assembler.py program.asm program.bin program_log.yaml
(3.12.5) user@user-System-Product-Name:~/mirea/assembler$ python interpreter.py program.bin result.yaml 100 110
(3.12.5) user@user-System-Product-Name:~/mirea/assembler$ cat program_log.yaml
- address: 0
  command: LOAD
  const: 32
  opcode: 2
- address: 1
  command: LOAD
  const: 64
  opcode: 2
- address: 2
  command: LOAD
  const: 128
  opcode: 2
- address: 3
  command: LOAD
  const: 256
  opcode: 2
- address: 4
  command: LOAD
  const: 512
  opcode: 2
- addr1: 0
  addr2: 100
  command: WRITE
  opcode: 5
- addr1: 1
  addr2: 101
  command: WRITE
```

```
(3.12.5) user@user-System-Product-Name:~/mirea/assembler$ cat result.yaml
100: 16
101: 16
102: 16
103: 16
104: 16
105: 1
106: 2
107: 3
108: 4
109: 5
(3.12.5) user@user-System-Product-Name:~/mirea/assembler$
```

Тесты на получаемую последовательность байт операций LOAD READ WRITE SHIFT

Можно убедиться, что полученные значения совпадают с указанными в условии задачи

```
(3.12.5) user@user-System-Product-Name:~/mirea/assembler$ python assembler.py test_load.asm test_load.bin test_load_log.yaml
(3.12.5) user@user-System-Product-Name:~/mirea/assembler$ hexdump -C test_load.bin
00000000  a2 2c 00 00 00 00 00 00  00 00 00 00 00 00 00 00  |.,..............|
00000010  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00  |................|
00000020  00 00 00 00 00 00 00 00                           |........|
00000028
(3.12.5) user@user-System-Product-Name:~/mirea/assembler$
```

```
(3.12.5) user@user-System-Product-Name:~/mirea/assembler$ python assembler.py test_read.asm test_read.bin test_read_log.yaml
(3.12.5) user@user-System-Product-Name:~/mirea/assembler$ hexdump -C test_read.bin
00000000  90 bb 0b 00 00 00 00 00  00 00 00 00 00 00 00 00  |................|
00000010  00 00 00 00 00 00 00 00                           |........|
00000018
(3.12.5) user@user-System-Product-Name:~/mirea/assembler$
```

```
(3.12.5) user@user-System-Product-Name:~/mirea/assembler$ python assembler.py test_write.asm test_write.bin test_write_log.yaml
(3.12.5) user@user-System-Product-Name:~/mirea/assembler$ hexdump -C test_write.bin
00000000  45 56 01 00 00 00 00 00  00 00 00 00 00 00 00 00  |EV..............|
00000010  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00  |................|
00000020
(3.12.5) user@user-System-Product-Name:~/mirea/assembler$
```

```
(3.12.5) user@user-System-Product-Name:~/mirea/assembler$ python assembler.py test_shift.asm test_shift.bin test_shift_log.yaml
(3.12.5) user@user-System-Product-Name:~/mirea/assembler$ hexdump -C test_shift.bin
00000000  d6 b2 01 00 00 00 00 00  00 00 00 00 00 00 00 00  |................|
00000010  00 00 00 00 00 00 00 00  00 00 00 00 00 00 00 00  |................|
00000020
(3.12.5) user@user-System-Product-Name:~/mirea/assembler$
```