

Пример работы логгера с разными режимами для кода

```
cache = LRUcache(2)
cache.set("k1", "v1")
cache.set("k2", "v2")
cache.get("k1")
cache.set("k3", "v3")
cache.set("k2", "v5")
cache.get("k2")
```

1. (Без флагов)

```
python3 /Users/fedorkomarov/Desktop/hse_deep_python_25_fkomarov/09/lru_cache.py
```

```
fedorkomarov@Noutbuk-Fedor 09 % python3 /Users/fedorkomarov/Desktop/hse_deep_python_25_fkomarov/09/lru_cache.py
```

```
09 > ≡ cache.log
1 Cache put new key:k1, value:v1, cache:[('k1', 'v1')]
2 Cache put new key:k2, value:v2, cache:[('k2', 'v2'), ('k1', 'v1')]
3 Cache get key:k1, cache:[('k1', 'v1'), ('k2', 'v2')], return: v1
4 Cache put new key:k3, value:v3, cache:[('k3', 'v3'), ('k1', 'v1')]
5 Cache put new key:k2, value:v5, cache:[('k2', 'v5'), ('k3', 'v3')]
6 Cache get key:k2, cache:[('k2', 'v5'), ('k3', 'v3')], return: v5
7
```

2. (с флагом -s)

```
fedorkomarov@Noutbuk-Fedor 09 % python3 /Users/fedorkomarov/Desktop/hse_deep_python_25_fkomarov/09/lru_cache.py -s
Cache put new key:k1, value:v1, cache:[('k1', 'v1')]
Cache put new key:k2, value:v2, cache:[('k2', 'v2'), ('k1', 'v1')]
Cache get key:k1, cache:[('k1', 'v1'), ('k2', 'v2')], return: v1
Cache put new key:k3, value:v3, cache:[('k3', 'v3'), ('k1', 'v1')]
Cache put new key:k2, value:v5, cache:[('k2', 'v5'), ('k3', 'v3')]
Cache get key:k2, cache:[('k2', 'v5'), ('k3', 'v3')], return: v5
```

```
09 > ≡ cache.log
1 Cache put new key:k1, value:v1, cache:[('k1', 'v1')]
2 Cache put new key:k2, value:v2, cache:[('k2', 'v2'), ('k1', 'v1')]
3 Cache get key:k1, cache:[('k1', 'v1'), ('k2', 'v2')], return: v1
4 Cache put new key:k3, value:v3, cache:[('k3', 'v3'), ('k1', 'v1')]
5 Cache put new key:k2, value:v5, cache:[('k2', 'v5'), ('k3', 'v3')]
6 Cache get key:k2, cache:[('k2', 'v5'), ('k3', 'v3')], return: v5
7
```

3.(с флагом -f)

```
fedorkomarov@Noutbuk-Fedor 09 % python3 /Users/fedorkomarov/Desktop/hse_deep_python_25_fkomarov/09/lru_cache.py -f
```

```
09 > ≡ cache.log
1 FILE 2025-12-07 15:38:08,675 INFO cache Cache put new key:k1, value:v1, cache:[('k1', 'v1')]
2 FILE 2025-12-07 15:38:08,675 INFO cache Cache put new key:k2, value:v2, cache:[('k2', 'v2'), ('k1', 'v1')]
3 FILE 2025-12-07 15:38:08,675 INFO cache Cache get key:k1, cache:[('k1', 'v1'), ('k2', 'v2')], return: v1
4 FILE 2025-12-07 15:38:08,675 INFO cache Cache put new key:k3, value:v3, cache:[('k3', 'v3'), ('k1', 'v1')]
5 FILE 2025-12-07 15:38:08,675 INFO cache Cache put new key:k2, value:v5, cache:[('k2', 'v5'), ('k3', 'v3')]
6 FILE 2025-12-07 15:38:08,675 INFO cache Cache get key:k2, cache:[('k2', 'v5'), ('k3', 'v3')], return: v5
```

4.(с флагами -fs)

```
fedorkomarov@Noutbuk-Fedor:~/Desktop/hse_deep_python_25_fkomarov/09/lru_cache.py -fs
STREAM 2025-12-07 15:39:20,071 INFO cache Cache put new key:k1, value:v1, cache:[('k1', 'v1')]
STREAM 2025-12-07 15:39:20,071 INFO cache Cache put new key:k2, value:v2, cache:[('k2', 'v2'), ('k1', 'v1')]
STREAM 2025-12-07 15:39:20,071 INFO cache Cache get key:k1, cache:[('k1', 'v1'), ('k2', 'v2')], return: v1
STREAM 2025-12-07 15:39:20,071 INFO cache Cache put new key:k3, value:v3, cache:[('k3', 'v3'), ('k1', 'v1')]
STREAM 2025-12-07 15:39:20,071 INFO cache Cache put new key:k2, value:v5, cache:[('k2', 'v5'), ('k3', 'v3')]
STREAM 2025-12-07 15:39:20,071 INFO cache Cache get key:k2, cache:[('k2', 'v5'), ('k3', 'v3')], return: v5
```

```
09 > cat cache.log
1 FILE 2025-12-07 15:39:20,071 INFO cache Cache put new key:k1, value:v1, cache:[('k1', 'v1')]
2 FILE 2025-12-07 15:39:20,071 INFO cache Cache put new key:k2, value:v2, cache:[('k2', 'v2'), ('k1', 'v1')]
3 FILE 2025-12-07 15:39:20,071 INFO cache Cache get key:k1, cache:[('k1', 'v1'), ('k2', 'v2')], return: v1
4 FILE 2025-12-07 15:39:20,071 INFO cache Cache put new key:k3, value:v3, cache:[('k3', 'v3'), ('k1', 'v1')]
5 FILE 2025-12-07 15:39:20,071 INFO cache Cache put new key:k2, value:v5, cache:[('k2', 'v5'), ('k3', 'v3')]
6 FILE 2025-12-07 15:39:20,071 INFO cache Cache get key:k2, cache:[('k2', 'v5'), ('k3', 'v3')], return: v5
7
```