```
moncif@moncif-NS5x-NS7xAU:~/Desktop/ffmalloc$ LD_PRELOAD=./libffmallocnpmt.so ./uaf
Allocating a...
a = 0x61e38100e000

Allocating b...
b = 0x61e38100e030

Freeing a...
a freed

Allocating c...
c = 0x61e38100e060
```

```c
#include <stdio.h>
#include <stdlib.h>

int main(void) {
    printf("Allocating a...\n");
    char *a = malloc(0x30);
    printf("a = %p\n\n", (void *)a);

    printf("Allocating b...\n");
    char *b = malloc(0x30);
    printf("b = %p\n\n", (void *)b);

    printf("Freeing a...\n");
    free(a);
    printf("a freed\n\n");

    printf("Allocating c...\n");
    char *c = malloc(0x30);
    printf("c = %p\n\n", (void *)c);

    return 0;
}
```

```
moncif@moncif-NS5x-NS7xAU:~/Desktop/ffmalloc$ vim uaf.c

moncif@moncif-NS5x-NS7xAU:~/Desktop/ffmalloc$ gcc  uaf.c -o uaf

moncif@moncif-NS5x-NS7xAU:~/Desktop/ffmalloc$ ./uaf
Allocating a...
a = 0x5a11c45c26b0

Allocating b...
b = 0x5a11c45c26f0

Freeing a...
a freed

Allocating c...
c = 0x5a11c45c26b0
```