

Lecture 17 Worksheet

```
int sum_example2(int arr[]) {
    int sum = 0;
    sum += arr[0];
    sum += arr[3];
    sum -= arr[6];
    sum ___?___ ___?___;
    return sum;
}
```

000000000401183 <sum_example2>:

```
401183: 8b 47 0c      mov    0xc(%rdi),%eax
401186: 03 07        add    (%rdi),%eax
401188: 2b 47 18     sub    0x18(%rdi),%eax
40118b: 8b 4f 04     mov    0x4(%rdi),%ecx
40118e: d3 e0       shl   %cl,%eax
401190: c3         ret
```

Sketch out register values and program behavior below to answer the reverse engineering questions.

arr

%rdi