

Lecture 18 Worksheet

```
int func(int nums[], int y) {
    int z = nums[_____] * _____;
    if (_____) {
        z -= _____;
    }
    return _____;
}
```

000000000401126 <elem_arithmetic>:

```
401126: movslq %esi,%rax
401129: mov    %esi,%edx
40112b: imul  (%rdi,%rax,4),%edx
40112f: mov    %edx,%eax
401131: cmp    %edx,%esi
401133: jge   401138
401135: sub    $0x2,%eax
401138: lea   0x2(%rax,%rax,1),%eax
40113c: ret
```

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