Main memory

Stack
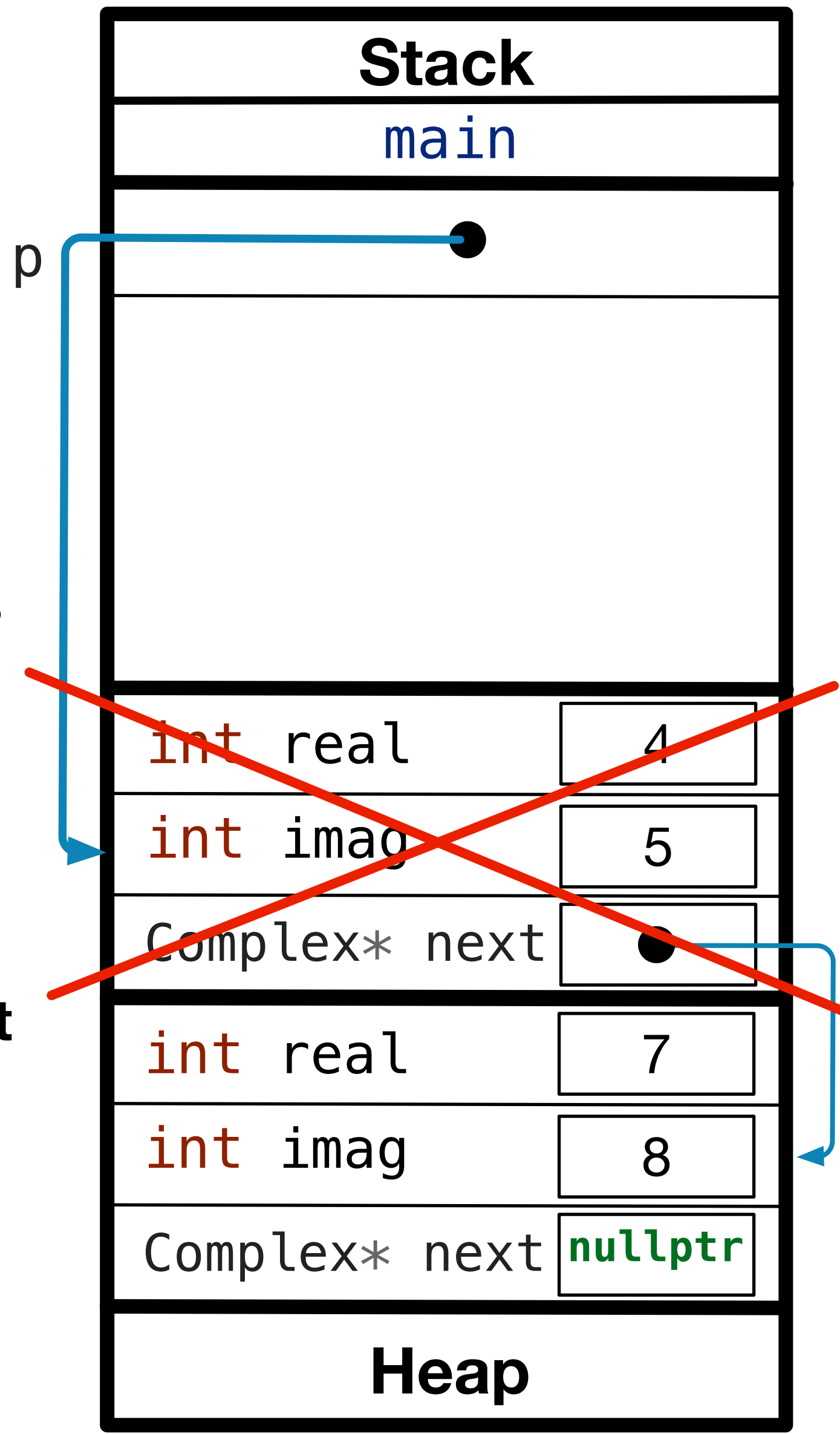
main

p

delete p **frees the Complex object on the heap; however, it doesn't free the other Complex object on the heap → memory leak** 🚨

int real | 4
int imag | 5
Complex* next

int real | 7
int imag | 8
Complex* next | nullptr

Heap

```cpp
1  #include <iostream>
2  using namespace std;
3
4  class Complex {
5    public:
6      int real;
7      int imag;
8      Complex* next;
9      Complex(int r, int i) {
10       real = r;
11       imag = i;
12       next = nullptr;
13     }
14 };
15
16 int main(void) {
17   Complex *p = new Complex(4, 5);
18   p->next = new Complex(7, 8);
19
20   delete p;
21   return 0;
22 }
```