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Part A

Answer: {1}, {5}, {2}, {6}, {3, 4}

Going Down:

next = llrec(5, 2)

next = llrec(2, 6)

next = llrec(6, 3)

next = llrec(3, nullptr)

We now go back up because we've hit a nullptr from in2 which returns in1.

Going Up:

Return {3,4}: next = llrec(3, nullptr)

Return {6}: next = llrec(6, 3)

Return {2}: next = llrec(2, 6)

Return {5}: next = llrec(5, 2)

Return 1

Part B

Answer: in2 = 2

Because in1 is a nullptr it enters the first if statement which has a return statement of in2. Since we return in2 the linked link is equal to 2.