- [CPSC 275: Introduction to Computer Systems](#)

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Fall 2025

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Solution to Homework 16

1. A.

```
void goto_cond(int a, int *p) {
   if (p == 0)
      goto done;
   if (a <= 0)
      goto done;
   *p += a;
 done:
    return;
}
```

   B. The first conditional branch is part of the implementation of the `&&` expression. If the test for `p` being non-null fails, the code will skip the test of `a > 0`.

2.
```
int gotodiff_alt(int x, int y) {
    int result;
    if (x < y)
       goto true;
    result = x - y;
    goto done;
 true:
    result = y - x;
 done:
    return result;
}
```

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