17-355/17-655/17-819: Program Analysis
Pointer Analysis
In-Class Exercises
February 18, 2020   **Andrew ID:** _____

1. Analyze the following program using Andersen's points-to analysis and draw the resulting points-to graph

```
1:   q := malloc()
2:   p := malloc()
3:   p := q
4:   r := &p
5:   s := malloc()
6:   *r := s
7:   t := &s
8:   u := *t
```

2. Analyze the following program using Steensgaard's points-to analysis and draw the resulting points-to graph

```
1: a := &x
2: b := &y
3: if p then
4:     y := &z
5: else
6:     y := &x
7: c := &y
```