17-355/17-655/17-819: Program Analysis

Lecture 11, Pointer Analysis

In-Class Exercises

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- 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

$$a := &x$$

$$b := &y$$

if p then

$$y := &z$$

else

$$y := &x$$

c := &y