

CSE 341, Spring 2006 Lecture 26

A Design Exercise

A Page Layout Problem

- Ordered list of widgets (char strings, boxes, radio groups...)
- Each has width, height

Welcome to PayBuddy

Please enter

Name:

SSN:

Gender: M F

How do you expect to use us?

Buy lunch

Buy books

Pay Gambling debts

A Page Layout Problem

- Treat as ordered sequence of rectangles
- Fill left-to-right, top-to-bottom
- Start next line if next rectangle doesn't fit on current line
- Assume functions `drawText(x,y,...)`
`drawRadio(x,y,...)`, ...

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Your Group's Task

1. At a high level, what's the layout algorithm
2. How would you store the data
3. How would you organize the code
4. Finally, sketch implementation