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