

Model 1 Finding & Fixing Errors

Estimate how long (seconds, minutes, hours, days, weeks, months, or years) it typically takes to correct an error in software when it is found by:

a.	a compiler , seconds after the file was edited	seconds
b.	a compiler , later the same day or during a nightly build	hours/days
c.	a pair programming partner, seconds after the error was made	
d.	a code review , days or weeks after the file was edited	
e.	a customer or other user, months after the software is released	
f.	a unit test , minutes after the file was edited	
g.	a unit test , later the same day or during a nightly build	
h.	a system test , shortly before software is released (weeks or months after the file was edited)	

Questions (5 min)

Start time: _____

1. Describe (or sketch a graph of) the relationship between the time to **find an error** and the time and cost to **repair an error**.

2. Explain why we should use an SDLC that finds and fixes errors as quickly as possible.