## Lecture 15 - March 28

## Program Verification

Stronger vs. Weaker Assertions Total vs. Partial Correctness

Announcements


- Bonus Opportunity - Course Evaluation
- ProgTest 1: Echo (eMail, Zoom); Jackie (Office Hour)
- Lab due tomorrow
- ProgTest2
- Final Exam: Review Q\&A Sessions
$\longrightarrow$ data sheet
$\rightarrow$ one side out; put anything year like $\leftrightarrows$ comp $\sim$ fort aped $\xi^{3} \geqslant 10 p t$


## Lecture

Program Verification
Correctness - Motivating Examples

Assertions: precandition, postcondition, invarantit no anthp



Preconditions $P_{1}$ v. $P_{2}$
 $\rightarrow$ pereand: for Ineear (on mppt valks) con apput echess.



Program Correctness: Example (2)


## Lecture

## Program Verification

## Hoare Triple and Weakest Precondition



