WI



ECS 30

Bernd Hamann
-Instructor

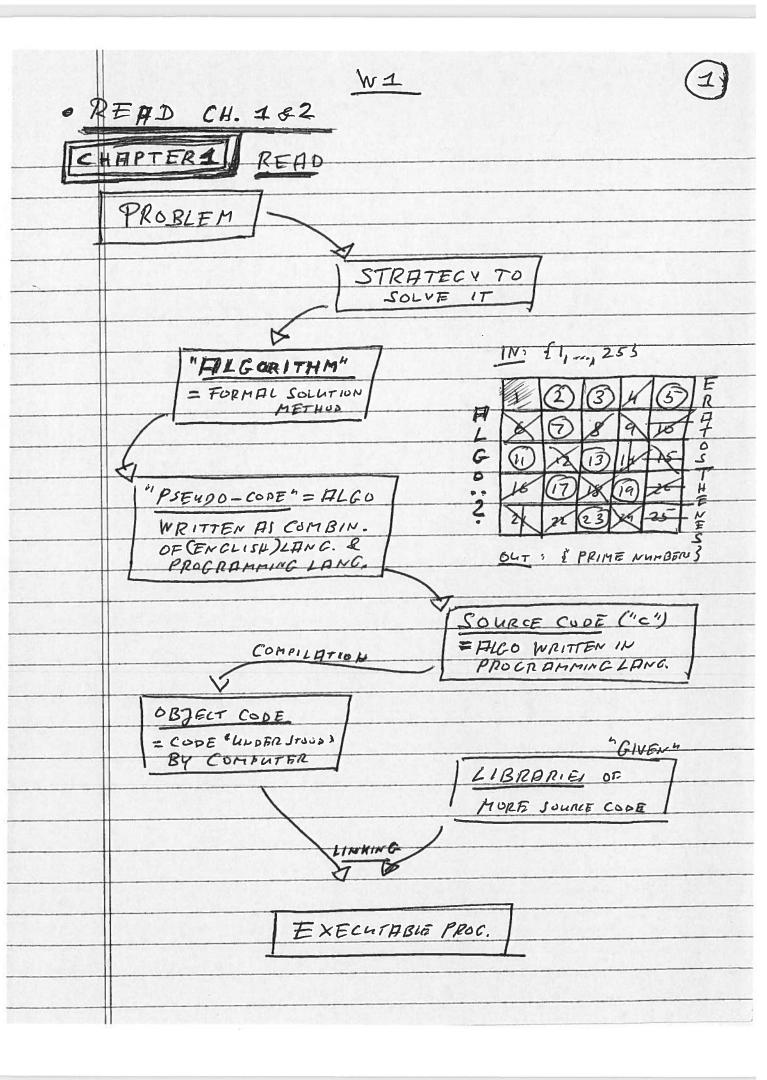
- · WELCOME! WE WILL LEARN TOGETHER.
- · SYLLABUS
- · COURSE WEB PAGES: https://smartsite.ucdavis.edu
 - General Course Materials
 - → Announcements, Questions & Answers
- · TEACHING ASSISTANTS:
 - * Responsible for issues concerning written homework, programming projects, exams, grading
- · PROGRAMMING:
 - Must run on Kemper Hall computers!
- · UNIX/EDITOR/DEBUGGER LABS: THs organize

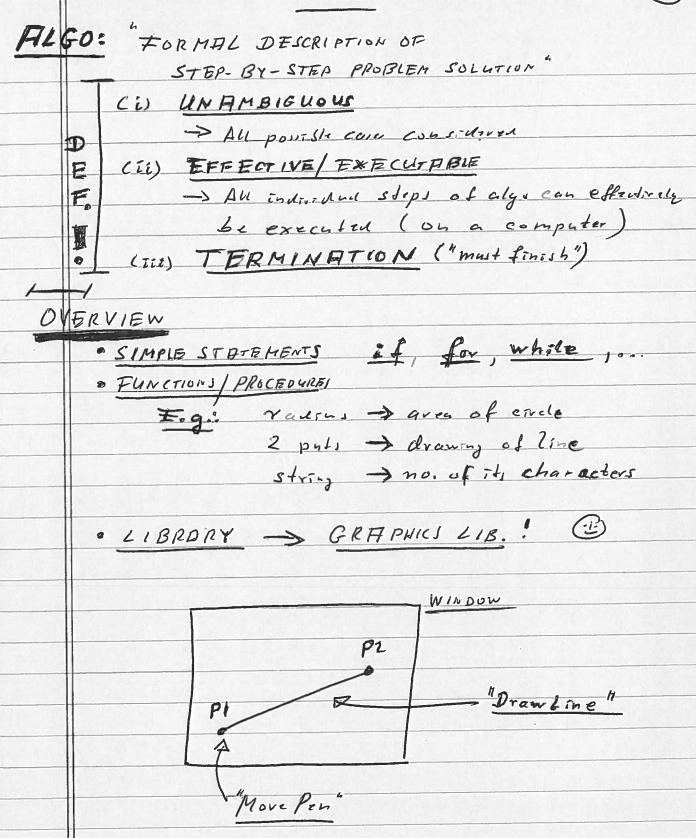
QUESTIONS?

• NOTE: 1) Work on assignments continually!

2) Ask THs for answers to general

questions! Answers on course web pages





INTERFACE -> Graphics Lib. "graphics.h" Def. of all AVAILABLE graphics feds. - Math Lis. math-h => Def. of AVAILABLE math. fcts. STRINGS -> E.g.: COMPILER: IN = Source File in C PARIER: paris all text input ... => ERRUR detection no MODULAR DEVELOPMENT PROBLEM "SIMULTIE DIR FLOW ADOUND AIR CRAFT" Geometry / CAD: geometry + GUI Libraries Num rical Method, 5 Visuelization graphus /vis. /GUI Libraries "DECOMPOSITION"

RECURSION

" Reduce a complex problem to a simpler one"

 $a \cdot b = \{a, \{a, \{b-1\}\}, a \text{ therewise}\}$

 $\pm x$: $3 \cdot 2 = 3 + (3 \cdot 1)$ (a) (b) = $3 + (3 + (3 \cdot 0))$ = 3 + (3 + 0)

Reduce (a) to just (+) and (-)

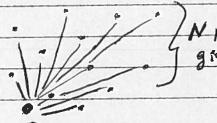
= 3 + 3

> Tower of Hanoi: ??? Explain!

"More town from A to B4

COMPLEXITY

e.g., determine pont clusulto p



N pate. "Check distances

given to all Mps."

= linea- complexity

"O(N)"

or: WHICH POINT PAIR (PIPZ) HAS MINIMAL DISTANCE ?

=> O(N2) ???