No: 單元4: 小遞迴解題
Date: /
Petining Language
A language - A set of strings of symbols
(語言) - Ex: English 、L++ : control
A grammar - The rules for forming the string in a language
(文法語法) — Ex: English grammar, C++ syntax rule
Algebraic Expressions
Intix expressions 中序 # Maisalar gasal
Ex: a+b ((a+b*c)/d/順序問題
Prefix expressions pip elicist nouni eatiti
Ex: +ab /*+abcd //前後序则無
Post tix expressions 後序 順序問題
Ex: abta abtc*d/
ully Parenthesized Expressions Many on vol
Fully parenthesized intix expressions
- Do not require precedence rules or rules for
association
- But are inconvenient for programmers
Remarki 以中序來寫會有先後順序問題,無以任孤
解决。

優較有彈性的擴充一有效運用資源 缺没處理好資料 >容易資料不見 Array has a fixed size. You'll nomed seconds 陣列 (需移動資料) Semila in April Linked List is able to grow in size as needed. 重結串列 (不需移動資料) Pointers lowers of Myor Declaration of an integer pointer variable P int *p; look in Loc 342 YARTAUTE TOABER for what u 0 0 26 10 5 9 want Addresses > 340 341 342 343 The new operator

P= New int; //申請一棟新房子

delete P; //歸還房子

P= NULL; //遺忘門牌

單元 2:抽象化	No:
	Date: /
物件導向概念	Petining La
Example: classes of objects	A I GAMANA
A	(8 %)
Behaviors: methods/member functions (柱序	分重)作
312) - Extended Company (++ more toles	(文法,)
Three characteristics encressed	Algebruic
Encapsulation 封裝 ***********************************	Intix e
· Objects combine data and operations	
· Hides inner details	Prefix ex
Inheritance 繼承	
· Classes can inherit properties from oth	er classes
• Existing classes can be reused	
Polymorphism 多型 encessage described	Fully Parav
· Objects can deter	I VIII
execution time	
Noisais	
ENVANDED THE TARREST SAFE	

女原本庭多在半海山區中門選了

元一: 滤迴	制 忠 弘 审众	No: S
	工。"	Date: /
以相同的方法角	平決問題	更較有彈性的
Recursive Functions	4 > 容易資料	失沒處理件資料
Factorial		
Grentest. Common Divis	for sale b	Array has a tixe
Search in Array	(料)	性别。原料
Fibonacci series	work at islda	Linked List is
Combinatorial number		重整語事列。中
Towers of Hanoi		Pointers
pointer vigitale P	nn integer 1	Declaration of
A binary search is	recursive	TATION
		分而 擊土
Use a divide and C (試著把問題有月	劉來 > 後成	較小的問題)
	th wit sevences	4 ments
Remark:	70771	The new open
1. 把問題拆解	成更小的問	題 1/5/1 = 9

2、確認 Base Case 有效且可執行

3. 所有 Case 最終到 Base Case