

Sunday, 7 February
16

Crux

Lecture - 7

Programming Fundamentals -3

Recursion

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Merge two sorted arrays

Merge Sort

Return all indices of Seven

Lets write some code

- Return all subsequences of a String

Your Turn

- Using the phone keypad return all possible words that can be produced given input digits. e.g. 23 > “ad, ae, af, bd, be, bf, cd, ce, cf”
- Instead of returning print all these

Daughters' Ages

Local Berkeley professors Dr. X and Dr. Y bump into each other after a long time.

X hey! how have you been?

Y great! i got married and i have three daughters now

X really? how old are they?

Y well, the product of their ages is 72, and the sum of their ages is the same as the number on that building over there

X right, ok ... oh wait ... hmm, i still don't know

Y oh sorry, the oldest one just started to play the piano

X wonderful! my oldest is the same age!

How old are the daughters?

