So you want to be a programmer?

Introduction to Course

CS 1400
What's His Academic Discipline?

Computer Science

What's Their Academic Discipline?

Statistics

Computer Science is the study of algorithms.

Computer science is the study of computer programming.

What is an algorithm?

Then what is it?

The correct answer is...

None of the above.

d) None of the above.

http://www.studentsreview.com/satisfaction_by_major.html

http://www.google.com/search?hl=en&rlz=1T4G


for php

http://www.studentreview.com/satisfaction_by_major.html

http://www.computingcareers.com/o/g/jd=4

What is an algorithm?

Computer science is the study of algorithms.

The correct answer is...

None of the above.

d) None of the above!
Algorithm

**Basic definition**

An algorithm is a logical sequence of instructions to accomplish a task.

**Caveats/refinements**

- Instructions must be well ordered
- Instructions must be unambiguous
- The process must eventually end
- The actions must be doable
- The algorithm must produce the required results

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Is this an Algorithm?

- Add flour until paste is sticky
- Knead until firm
- Roll thin and cut
- Bake in a medium oven until light brown
- Place on rack until cool
- Add hour until paste is sticky

No! Why not?

*Hint: Are all operations unambiguous?*
Is This an Algorithm?

No! Why not?

Hint: Instructions Clear?

Refined Shampooing

• Wet hair
• Pick up shampoo bottle
• Open the bottle
• Pour some shampoo on your hand
• Pick up shampoo bottle
• Wet hair
• Close the shampoo bottle
• Pour some shampoo on hair
• Close shampoo bottle
• Set bottle down
• Rub shampoo through hair until lather covers hair
• Rinse hair until all lather is removed
• Repeat the previous eight steps one more time

What is Programming?

• Designing an appropriate algorithm
• Coding that algorithm in a computer language

Healthy: In case of contact, rinse immediately after shampooing. For best results, use every day. massage scalp. Shampoo with gentle, infrequent hair. Apply to wet, clean hair.