

The Significant Side Effects of Cheating on Programming Assignments

Arup Guha dmarino@cs.ucf.edu 4/14/2016

DEPARTMENT OF ELECTRICAL ENGINEERING & COMPUTER SCIENCE www.eecs.ucf.edu





Go out and have fun

Debug Code for 10 hours







Consequences



Partying Student

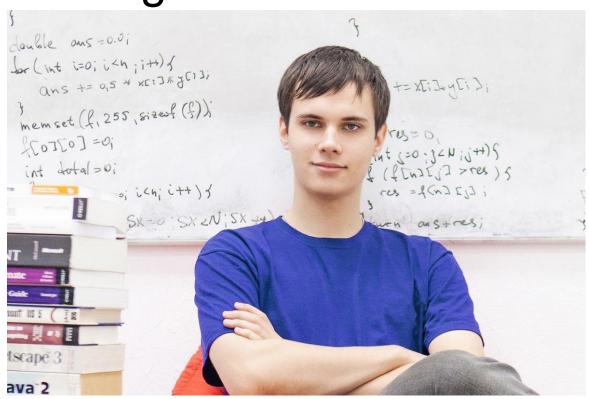
- Thinks he/she can cram information before exam and be okay
- Doesn't realize that the lack of practice significantly affects ability to write proper code and to debug code.
- Thinks copying code for the assignment isn't a big deal.

Diligent Student

- Learns how and why behind fundamental topics in computer science
- Has developed brain patterns that allow for creative problem solving and future learning.







http://theduckrabbit.com/2015/10/the-superstar-of-sport-coding/





Biggest Side Effect of Graduating Poor Coders



 Buggy Software has caused billions of dollars of loss and loss of life.

- □ Therac-25 (1985) 6 large radiation overdoses
- □ Patriot Missile Accident (1991) 28 deaths
- □ Ariane-5 (1996) cost \$254 million
- Mars Climate Orbiter (1998) cost \$327.6 million
- □ North East Blackout (2003) \$10 billion and 11 lives







Other side effects

- Grades are no longer fair.
- Grades no longer indicate ability.
- The entire degree is devalued.

