

- b. What is the maximum number of divisions made by Euclid's algorithm among all inputs  $1 \leq m, n \leq 10^7$ ?
10. a. Euclid's algorithm, as presented in Euclid's treatise, uses subtractions rather than integer divisions. Write pseudocode for this version of Euclid's algorithm.
- b. ► *Euclid's game* (see [Bog]) starts with two unequal positive integers on the board. Two players move in turn. On each move, a player has to write on the board a positive number equal to the difference of two numbers already on the board; this number must be new, i.e., different from all the numbers already on the board. The player who cannot move loses the game. Should you choose to move first or second in this game?
11. The *extended Euclid's algorithm* determines not only the greatest common divisor  $d$  of two positive integers  $m$  and  $n$  but also integers (not necessarily positive)  $x$  and  $y$ , such that  $mx + ny = d$ .
- a. Look up a description of the extended Euclid's algorithm (see, e.g., [Knul, p. 13]) and implement it in the language of your choice.
- b. Modify your program to find integer solutions to the Diophantine equation  $ax + by = c$  with any set of integer coefficients  $a$ ,  $b$ , and  $c$ .
12. ▷ *Locker doors*. There are  $n$  lockers in a hallway, numbered sequentially from 1 to  $n$ . Initially, all the locker doors are closed. You make  $n$  passes by the lockers, each time starting with locker #1. On the  $i$ th pass,  $i = 1, 2, \dots, n$ , you toggle the door of every  $i$ th locker: if the door is closed, you open it; if it is open, you close it. After the last pass, which locker doors are open and which are closed? How many of them are open?

# Anany Levitin 3rd Edition Solution

**Anany Levitin**



## **Anany Levitin 3rd Edition Solution:**

**Algorithmic Puzzles** Anany Levitin, Maria Levitin, 2011-10-14 Algorithmic puzzles are puzzles involving well defined procedures for solving problems This book will provide an enjoyable and accessible introduction to algorithmic puzzles that will develop the reader's algorithmic thinking The first part of this book is a tutorial on algorithm design strategies and analysis techniques Algorithm design strategies exhaustive search backtracking divide and conquer and a few others are general approaches to designing step by step instructions for solving problems Analysis techniques are methods for investigating such procedures to answer questions about the ultimate result of the procedure or how many steps are executed before the procedure stops The discussion is an elementary level with puzzle examples and requires neither programming nor mathematics beyond a secondary school level Thus the tutorial provides a gentle and entertaining introduction to main ideas in high level algorithmic problem solving The second and main part of the book contains 150 puzzles from centuries old classics to newcomers often asked during job interviews at computing engineering and financial companies The puzzles are divided into three groups by their difficulty levels The first fifty puzzles in the Easier Puzzles section require only middle school mathematics The sixty puzzle of average difficulty and forty harder puzzles require just high school mathematics plus a few topics such as binary numbers and simple recurrences which are reviewed in the tutorial All the puzzles are provided with hints detailed solutions and brief comments The comments deal with the puzzle origins and design or analysis techniques used in the solution The book should be of interest to puzzle lovers students and teachers of algorithm courses and persons expecting to be given puzzles during job interviews

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from  $n = 3$  to  $n = 5$  in the hydrogen atom. a) Calculate the energy. b) Calculate the wavelength (in nm). Chapter 25 Nuclear Chemistry 25.2 Nuclear Transformations Sep 5, 2017 — Nuclear Chemistry Targets: 1.I CAN Utilize appropriate scientific vocabulary to explain scientific concepts. 2.I CAN Distinguish between fission ... Matter and Change • Chapter 25 When a radioactive nucleus gives off a gamma ray, its atomic number increases by. 12. The three types of radiation were first identified by Ernest Rutherford. Nuclear Chemistry - Lake Central High School Jul 12, 2015 — What is the change in atomic number after the alpha decay? It decreases by 2. b. ... answer the following questions. **Nuclear** ... 25.2 Nuclear Transformations | Lecture notes Chemistry These nuclei decay by turning a neutron into a proton to emit a beta particle (an electron) from the nucleus. This process is known as beta emission. It ... 60 s - 1 min SECTION 25.2 NUCLEAR TRANSFORMATIONS. 1. Write a nuclear equation for the following radioactive processes. a. alpha decay of francium-208  $^{208}\text{Fr} \rightarrow \text{b} \dots$