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Anguila Antígua e Barbuda Antilhas Holandesas Arábia Saudita  
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If a number is evenly divisible by 2 with no remainder, then it is even. You can calculate the remainder with the modulo operator % like this  $num \% 2 == 0$ . If a number divided by 2 leaves a remainder of 1, then the number is odd. You can check for this using  $num \% 2 == 1$ .

14.3. Detecting Odd and Even AP CS Principles - Student Edition

runestone.academy : books : published : StudentCSP : CSPTurtleDecisions

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Zero is an even number. In other words, its parity the quality of an integer being even or odd is even. The simplest way to prove that zero is even is to check that it fits the definition of "even": it is an integer multiple of 2, specifically  $0 = 2 \cdot 0$ .

Is zero an odd number or an even number? - BYJU'S : question-answer : is-zero-an-odd-number-or-an-even-number