The answers to the clues can be partially spelled out using some of the two- or three-letter "silicon segments" listed below. However, in order to complete the answers, one or more of the boxes must be filled in with a chemical element symbol, taken from the list of "dopants." Treating each word as a 5-bit value, with the presence or absence of an elemental "dopant" representing 1 or 0 , we can spell the word TWENTY-EIGHT, which is both the value "encoded" by the final answer and the dopant used in that answer: element 28 is nickel, or Ni. Taking the indicated letters from the silicon segments spells REVERSE THEM, which is a required processing step before assembling the circuit. 28 is 11100 in binary, so the answer will be of the form $\mathrm{IN}_{\ldots} \quad \mathrm{IN}_{\ldots} \quad \mathrm{IN} \_$_ __, where each blank is filled with one of the remaining silicon segments, reversed. The only combination that makes sense is INDEFINITE INTEGRAL, which is the answer.


