

## Computer Engineering

### Artificial Intelligence and Machine Learning activity:

Unscramble the following words:

obsrtico: robotics

glimtorah: algorithm

antiring: training

aceminh : machine

bohraemdrot : motherboard

adasabet : database

### Cryptography activity:

Plain text: "Hello World"  
Encrypted: "Mjqqt Btwqi"

Plain text: "Binary is just ones and zeros"  
Encrypted: "Gnsfwd nx ozxy tsjx fsi ejwtx"

Plain text: "Alan Turing"  
Encrypted: "Fqfs Yzwnsl"

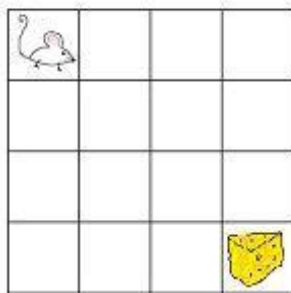
Plain text: "Hard Drive"  
Encrypted: "Mfw lwnaj"

Plain text: "World Wide Web"  
Encrypted: "Btwqi Bnij Bjpg"

Plain text: "Hexadecimal"  
Encrypted: "Mjcfijhnrfq"

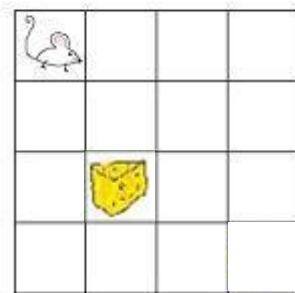
### Write a code using arrows:

Find the code



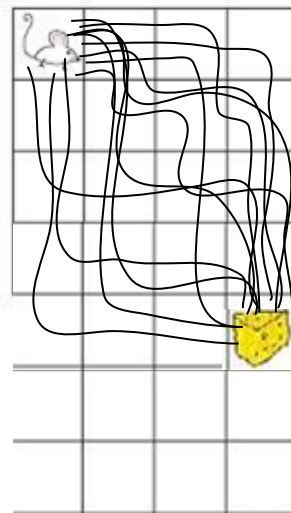
1. → → ↓ ↓ ↓
2. ↓ ↓ → ↓ → →
3. → ↓ → → ↓ →
4. → ↓ → ↓ → → ↓

Find the code



1. → → ↓ ← ←
2. → → → ↓ ↓ ↓ ← →
3. ↓ ↓ ↓ → → ↑ ←
4. → → ↓ ↓ ↓ →

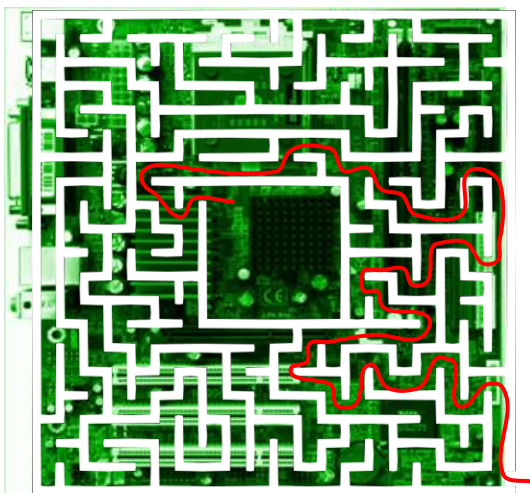
Write the code for the



Any combination of 7 arrows.  
Only use → and ↓

Example: right, down, down, down, down, right, right

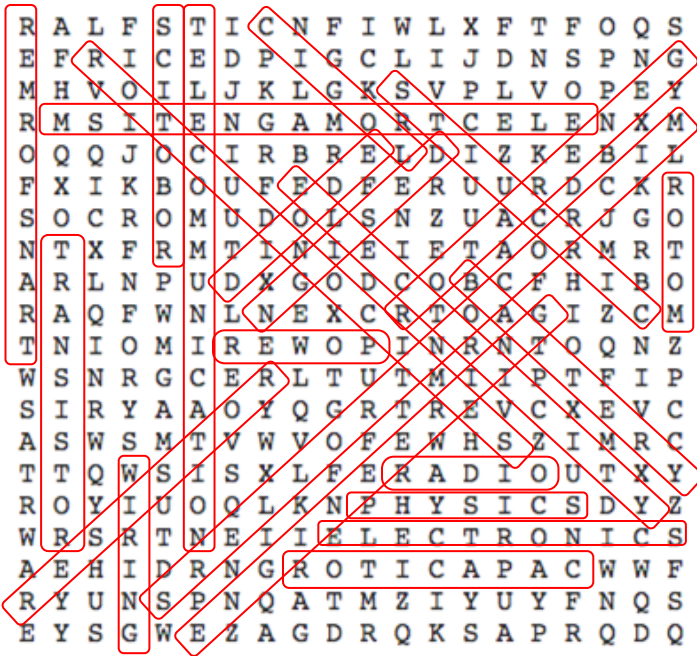
Navigate the Motherboard!



**Electrical Engineering**

Word Search:

Word Fill in:



BATTERY  
CAPACITOR  
CIRCUITS  
DESIGN  
DIODE  
ELECTRICITY  
ELECTROMAGNETISM  
ELECTRONICS  
ENGINEERING  
GENERATOR  
LOGIC  
MICROCONTROLLERS

MOTOR  
PHYSICS  
POWER  
RADIO  
RESISTOR  
ROBOTICS  
SEMICONDUCTOR  
TELECOMMUNICATION  
TRANSFORMER  
TRANSISTOR  
WIRING

**5 Letters**  
power  
wires

**8 Letters**  
circuits  
resistor  
robotics

**10 Letters**  
transistor

**11 Letters**  
electricity  
engineering

**13 Letters**  
semiconductor

Word Ladder:

Connect the dots:

VOLT → BOLT → BELT → BENT → WENT → WANT → WATT

OR

VOLT → BOLT → BOTT → BATT → WATT

AMPS → ALPS → ALMS → OLMS → OHMS

OR

AMPS → ASPS → ASKS → ARKS → ARMS → ALMS → OLMS → OHMS

OR

Send us another solution

Fictionary:

