

COMPUTATIONAL THINKING IN EVERYDAY LIFE APPLICATIONS

DECONSTRUCTING COMPLEXITY: COMPUTATIONAL THINKING IN EVERYDAY LIFE APPLICATIONS

COMPUTATIONAL THINKING IN EVERYDAY LIFE APPLICATIONS IS A POWERFUL LENS THROUGH WHICH WE CAN UNDERSTAND AND NAVIGATE THE WORLD AROUND US, MOVING BEYOND THE REALM OF COMPUTER SCIENCE TO BECOME A FUNDAMENTAL SKILL FOR PROBLEM-SOLVING IN COUNTLESS SCENARIOS. IT'S ABOUT APPROACHING CHALLENGES WITH A STRUCTURED, LOGICAL MINDSET, BREAKING DOWN COMPLEX ISSUES INTO MANAGEABLE PARTS, AND DEVISING EFFICIENT SOLUTIONS. THIS ARTICLE WILL DELVE INTO THE CORE CONCEPTS OF COMPUTATIONAL THINKING – DECOMPOSITION, PATTERN RECOGNITION, ABSTRACTION, AND ALGORITHMS – AND EXPLORE THEIR PROFOUND IMPACT ON OUR DAILY ROUTINES, FROM PLANNING A TRIP TO MANAGING HOUSEHOLD TASKS AND EVEN UNDERSTANDING SOCIAL INTERACTIONS. BY EMBRACING THESE PRINCIPLES, WE CAN ENHANCE OUR CRITICAL THINKING, IMPROVE OUR DECISION-MAKING PROCESSES, AND FOSTER A MORE PROACTIVE APPROACH TO LIFE'S MYRIAD CHALLENGES.

TABLE OF CONTENTS

DECOMPOSITION: BREAKING DOWN THE BIG PICTURE

PATTERN RECOGNITION: FINDING THE THREADS OF CONNECTION

ABSTRACTION: FOCUSING ON THE ESSENTIALS

ALGORITHMS: CRAFTING STEP-BY-STEP SOLUTIONS

COMPUTATIONAL THINKING IN ACTION: PRACTICAL EXAMPLES

THE BENEFITS OF EMBRACING COMPUTATIONAL THINKING

DECOMPOSITION: BREAKING DOWN THE BIG PICTURE

IMAGINE YOU'RE PLANNING A LARGE EVENT, LIKE A WEDDING OR A MAJOR WORK CONFERENCE. IT SEEMS OVERWHELMING, DOESN'T IT? THAT'S WHERE DECOMPOSITION COMES IN. THIS FUNDAMENTAL ASPECT OF COMPUTATIONAL THINKING INVOLVES BREAKING DOWN A LARGE, COMPLEX PROBLEM INTO SMALLER, MORE MANAGEABLE SUB-PROBLEMS. INSTEAD OF STARING AT THE DAUNTING ENTIRETY OF "PLAN THE WEDDING," WE DECOMPOSE IT INTO SMALLER, ACTIONABLE TASKS. YOU MIGHT BREAK IT DOWN INTO VENUE SELECTION, GUEST LIST MANAGEMENT, CATERING, INVITATIONS, ENTERTAINMENT, AND SO ON. EACH OF THESE SMALLER PARTS CAN THEN BE TACKLED INDIVIDUALLY, MAKING THE OVERALL PROJECT FEEL FAR LESS INTIMIDATING AND MUCH MORE ACHIEVABLE.

THIS ISN'T JUST FOR GRAND EVENTS; THINK ABOUT MAKING A NEW RECIPE. YOU DON'T JUST DUMP ALL THE INGREDIENTS INTO A POT AND HOPE FOR THE BEST. YOU DECOMPOSE THE PROCESS: GATHER INGREDIENTS, CHOP VEGETABLES, PREHEAT THE OVEN, MIX DRY INGREDIENTS, MIX WET INGREDIENTS, COMBINE, BAKE. EACH STEP IS A SMALLER PROBLEM THAT LEADS TO THE SUCCESSFUL COMPLETION OF THE LARGER TASK – A DELICIOUS MEAL. THIS SYSTEMATIC APPROACH ENSURES THAT NO CRUCIAL ELEMENT IS OVERLOOKED AND THAT THE ENTIRE PROCESS UNFOLDS SMOOTHLY.

THE POWER OF GRANULARITY

THE KEY TO EFFECTIVE DECOMPOSITION LIES IN FINDING THE RIGHT LEVEL OF GRANULARITY. YOU DON'T WANT TO BREAK DOWN A TASK INTO STEPS THAT ARE TOO SMALL (LIKE "PICK UP THE SPOON" FOR MAKING A SANDWICH), BUT YOU ALSO DON'T WANT TO LEAVE THEM TOO LARGE (LIKE "MAKE LUNCH"). THE GOAL IS TO CREATE COMPONENTS THAT ARE DISTINCT, UNDERSTANDABLE, AND CAN BE ADDRESSED INDEPENDENTLY. THIS PRACTICE TRAINS YOUR BRAIN TO SEE COMPLEX SITUATIONS NOT AS INSURMOUNTABLE OBSTACLES BUT AS COLLECTIONS OF INTERCONNECTED, SOLVABLE PIECES.

PATTERN RECOGNITION: FINDING THE THREADS OF CONNECTION

ONCE WE'VE BROKEN DOWN A PROBLEM, THE NEXT STEP IN COMPUTATIONAL THINKING IS PATTERN RECOGNITION. THIS IS ALL ABOUT IDENTIFYING SIMILARITIES, TRENDS, AND RECURRING THEMES WITHIN THE DECOMPOSED COMPONENTS OR ACROSS DIFFERENT PROBLEMS. BY SPOTTING THESE PATTERNS, WE CAN OFTEN LEVERAGE EXISTING KNOWLEDGE OR SOLUTIONS TO SOLVE NEW PROBLEMS MORE EFFICIENTLY. THINK ABOUT LEARNING TO DRIVE A CAR. ONCE YOU'VE MASTERED THE BASICS OF STEERING, ACCELERATING, AND BRAKING, YOU CAN APPLY THOSE FUNDAMENTAL SKILLS TO DRIVING DIFFERENT TYPES OF VEHICLES – A CAR, A TRUCK, EVEN A BUS – WITH ONLY MINOR ADJUSTMENTS. THE CORE PATTERNS OF OPERATION REMAIN THE SAME.

IN EVERYDAY LIFE, PATTERN RECOGNITION IS EVERYWHERE. WHEN YOU NOTICE THAT TRAFFIC IS ALWAYS HEAVIER ON A PARTICULAR ROUTE DURING RUSH HOUR, YOU'VE RECOGNIZED A PATTERN. THIS MIGHT LEAD YOU TO DEVISE AN ALTERNATIVE

ROUTE OR ADJUST YOUR TRAVEL TIME. SIMILARLY, IF YOU CONSISTENTLY FIND YOURSELF RUNNING LATE IN THE MORNINGS, IDENTIFYING THE PATTERN OF YOUR MORNING ROUTINE MIGHT REVEAL BOTTLENECKS YOU CAN ADDRESS. RECOGNIZING PATTERNS ALLOWS US TO ANTICIPATE OUTCOMES, MAKE PREDICTIONS, AND DEVELOP MORE INFORMED STRATEGIES.

RECOGNIZING RECURRING PROBLEMS AND SOLUTIONS

THIS SKILL IS INVALUABLE WHEN DEALING WITH RECURRING PROBLEMS. IF YOU NOTICE THAT A CERTAIN TYPE OF ELECTRONIC DEVICE FREQUENTLY MALFUNCTIONS AFTER A SPECIFIC PERIOD, YOU'VE IDENTIFIED A PATTERN. THIS MIGHT PROMPT YOU TO RESEARCH COMMON ISSUES FOR THAT DEVICE TYPE OR CONSIDER A DIFFERENT BRAND FOR YOUR NEXT PURCHASE. THE ABILITY TO SEE THESE CONNECTIONS SAVES TIME, EFFORT, AND OFTEN, FRUSTRATION. IT'S LIKE HAVING A MENTAL LIBRARY OF PAST EXPERIENCES THAT WE CAN DRAW UPON TO NAVIGATE NEW SITUATIONS MORE EFFECTIVELY.

ABSTRACTION: FOCUSING ON THE ESSENTIALS

ABSTRACTION IS PERHAPS THE MOST SOPHISTICATED ELEMENT OF COMPUTATIONAL THINKING, AND IT'S CRUCIAL FOR SIMPLIFYING COMPLEX SYSTEMS. IT INVOLVES FILTERING OUT UNNECESSARY DETAILS AND FOCUSING ONLY ON THE ESSENTIAL INFORMATION RELEVANT TO THE PROBLEM AT HAND. THINK ABOUT A MAP. A MAP IS A BRILLIANT EXAMPLE OF ABSTRACTION; IT DOESN'T SHOW EVERY SINGLE TREE, EVERY BLADE OF GRASS, OR EVERY INDIVIDUAL BUILDING. INSTEAD, IT ABSTRACTS THE ESSENTIAL FEATURES: ROADS, LANDMARKS, AND BOUNDARIES. THIS SIMPLIFIED REPRESENTATION ALLOWS US TO NAVIGATE A VAST GEOGRAPHICAL AREA WITHOUT BEING OVERWHELMED BY EXTRANEOUS INFORMATION.

IN OUR DAILY LIVES, WE ABSTRACT CONSTANTLY. WHEN YOU GIVE SOMEONE DIRECTIONS, YOU DON'T DESCRIBE THE COLOR OF EVERY HOUSE OR THE TYPE OF CAR PARKED IN EVERY DRIVEWAY. YOU ABSTRACT THE KEY TURNS, STREET NAMES, AND LANDMARKS. SIMILARLY, WHEN YOU USE A SMARTPHONE APP, YOU DON'T NEED TO UNDERSTAND THE INTRICATE CODING OR HARDWARE ARCHITECTURE THAT MAKES IT WORK. YOU INTERACT WITH AN ABSTRACTED INTERFACE DESIGNED FOR EASE OF USE. THIS ABILITY TO IGNORE THE IRRELEVANT ALLOWS US TO CONCENTRATE ON WHAT TRULY MATTERS FOR A SPECIFIC TASK OR DECISION.

SIMPLIFYING FOR CLARITY AND EFFICIENCY

ABSTRACTION HELPS US CREATE MODELS OF REALITY THAT ARE UNDERSTANDABLE AND ACTIONABLE. FOR EXAMPLE, WHEN BUDGETING, WE ABSTRACT OUR COMPLEX SPENDING HABITS INTO CATEGORIES LIKE "HOUSING," "FOOD," AND "ENTERTAINMENT." THIS SIMPLIFIED VIEW MAKES IT EASIER TO TRACK OUR FINANCES AND MAKE INFORMED DECISIONS ABOUT WHERE TO ALLOCATE OUR RESOURCES. BY FOCUSING ON THE CORE PRINCIPLES AND IGNORING THE NOISE, ABSTRACTION EMPOWERS US TO MANAGE COMPLEXITY WITH GREATER CLARITY AND EFFICIENCY.

ALGORITHMS: CRAFTING STEP-BY-STEP SOLUTIONS

FINALLY, WE ARRIVE AT ALGORITHMS. IN COMPUTATIONAL THINKING, AN ALGORITHM IS A SET OF WELL-DEFINED, STEP-BY-STEP INSTRUCTIONS OR RULES FOR SOLVING A PROBLEM OR ACHIEVING A TASK. IT'S THE RECIPE, THE PROCEDURE, THE PLAN OF ACTION. ALGORITHMS ARE THE BACKBONE OF HOW WE ACCOMPLISH GOALS, FROM THE SIMPLEST OF TASKS TO THE MOST COMPLEX OPERATIONS. THINK ABOUT HOW YOU MAKE A CUP OF TEA. THERE'S AN IMPLICIT ALGORITHM: BOIL WATER, PLACE TEA BAG IN MUG, POUR HOT WATER, STEEP, ADD MILK AND SUGAR (OPTIONAL), STIR.

ALGORITHMS DON'T HAVE TO BE RIGID; THEY CAN BE ADAPTED AND REFINED. WHEN YOU'RE TRYING TO TEACH A NEW SKILL TO SOMEONE, YOU'RE ESSENTIALLY GUIDING THEM THROUGH AN ALGORITHM. WHETHER IT'S TEACHING A CHILD TO TIE THEIR SHOELACES OR EXPLAINING A NEW WORKFLOW TO A COLLEAGUE, YOU'RE PROVIDING A SEQUENCE OF STEPS. THE BEAUTY OF ALGORITHMS LIES IN THEIR ABILITY TO BE REPRODUCIBLE AND, WHEN DESIGNED WELL, HIGHLY EFFICIENT. THEY BRING ORDER TO CHAOS AND ENSURE CONSISTENCY IN OUTCOMES.

FROM COOKING TO CODE: UNIVERSAL PRINCIPLES

THE CONCEPT OF AN ALGORITHM EXTENDS FAR BEYOND COMPUTER PROGRAMMING. THINK ABOUT FOLLOWING A RECIPE, ASSEMBLING IKEA FURNITURE, OR EVEN NAVIGATING YOUR MORNING ROUTINE. EACH OF THESE INVOLVES A SEQUENCE OF STEPS DESIGNED TO ACHIEVE A SPECIFIC OUTCOME. BY UNDERSTANDING AND DEVELOPING OUR ALGORITHMIC THINKING, WE BECOME BETTER AT PLANNING, EXECUTING TASKS, AND TROUBLESHOOTING WHEN THINGS DON'T GO AS EXPECTED. WE LEARN TO CREATE ROBUST, RELIABLE PROCESSES THAT CAN BE FOLLOWED BY OURSELVES OR OTHERS.

COMPUTATIONAL THINKING IN ACTION: PRACTICAL EXAMPLES

THE THEORETICAL CONCEPTS OF COMPUTATIONAL THINKING COME ALIVE WHEN WE SEE THEM APPLIED IN REAL-WORLD SCENARIOS. LET'S EXPLORE A FEW COMMON EXAMPLES:

PLANNING A VACATION:

DECOMPOSITION: BREAKING DOWN THE VACATION INTO SMALLER PARTS: DESTINATION RESEARCH, BUDGETING, BOOKING FLIGHTS, BOOKING ACCOMMODATION, PLANNING ITINERARY, PACKING.

PATTERN RECOGNITION: NOTICING THAT BOOKING FLIGHTS ON TUESDAYS OFTEN YIELDS BETTER PRICES, OR THAT CERTAIN DESTINATIONS ARE MORE EXPENSIVE DURING PEAK SEASONS.

ABSTRACTION: FOCUSING ON THE ESSENTIAL ELEMENTS OF A DESTINATION (CLIMATE, ACTIVITIES, COST) RATHER THAN OBSESSING OVER EVERY MINOR DETAIL OF EVERY STREET.

ALGORITHM: CREATING A STEP-BY-STEP CHECKLIST FOR BOOKING AND PACKING, OR A DAILY ITINERARY FOR THE TRIP.

MANAGING HOUSEHOLD CHORES:

DECOMPOSITION: SEPARATING TASKS LIKE LAUNDRY, GROCERY SHOPPING, CLEANING, AND MEAL PREPARATION.

PATTERN RECOGNITION: IDENTIFYING THAT DOING LAUNDRY ON SUNDAYS AND GROCERY SHOPPING ON WEDNESDAYS WORKS BEST FOR YOUR SCHEDULE.

ABSTRACTION: CREATING A GENERAL CLEANING SCHEDULE RATHER THAN METICULOUSLY PLANNING EACH DAY'S CLEANING TASKS.

ALGORITHM: DEVELOPING A ROUTINE FOR HOW AND WHEN CERTAIN CHORES ARE COMPLETED TO MAINTAIN ORDER.

TROUBLESHOOTING A DEVICE:

DECOMPOSITION: BREAKING DOWN THE PROBLEM INTO POTENTIAL CAUSES (POWER, CONNECTIVITY, SOFTWARE, HARDWARE).

PATTERN RECOGNITION: REMEMBERING THAT SIMILAR ISSUES IN THE PAST WERE RESOLVED BY RESTARTING THE DEVICE.

ABSTRACTION: FOCUSING ON THE CORE FUNCTIONALITY THAT IS NOT WORKING, IGNORING LESS RELEVANT FEATURES.

ALGORITHM: FOLLOWING A LOGICAL SEQUENCE OF TROUBLESHOOTING STEPS, STARTING WITH THE SIMPLEST AND MOST COMMON FIXES.

EVERYDAY PROBLEM-SOLVING ENHANCED

THESE EXAMPLES ILLUSTRATE HOW COMPUTATIONAL THINKING PRINCIPLES ARE INHERENTLY PRESENT IN HOW WE APPROACH AND SOLVE PROBLEMS DAILY. BY CONSCIOUSLY APPLYING THESE CONCEPTS, WE CAN BECOME MORE EFFECTIVE, EFFICIENT, AND STRATEGIC THINKERS, MAKING BETTER DECISIONS AND ACHIEVING OUR GOALS WITH GREATER EASE. IT'S ABOUT CULTIVATING A MINDSET THAT IS PROACTIVE, LOGICAL, AND ANALYTICAL IN NAVIGATING THE COMPLEXITIES OF MODERN LIFE.

THE BENEFITS OF EMBRACING COMPUTATIONAL THINKING

ADOPTING A COMPUTATIONAL THINKING MINDSET OFFERS A WEALTH OF BENEFITS THAT EXTEND FAR BEYOND ACADEMIC OR PROFESSIONAL PURSUITS. IT CULTIVATES A MORE ROBUST AND ADAPTABLE PROBLEM-SOLVING APPROACH. INDIVIDUALS WHO PRACTICE COMPUTATIONAL THINKING ARE OFTEN BETTER EQUIPPED TO HANDLE AMBIGUITY AND CHANGE, AS THEY ARE TRAINED TO DISSECT CHALLENGES AND DEVISE SOLUTIONS SYSTEMATICALLY. THIS LEADS TO INCREASED CONFIDENCE IN TACKLING UNFAMILIAR SITUATIONS.

FURTHERMORE, THIS MODE OF THINKING FOSTERS ENHANCED CRITICAL ANALYSIS. BY BREAKING DOWN PROBLEMS AND LOOKING FOR PATTERNS, INDIVIDUALS LEARN TO EVALUATE INFORMATION MORE DISCERNINGLY AND IDENTIFY THE ROOT CAUSES OF ISSUES RATHER THAN JUST ADDRESSING SYMPTOMS. THIS ANALYTICAL RIGOR IS INVALUABLE IN MAKING INFORMED DECISIONS IN ALL ASPECTS OF LIFE, FROM PERSONAL FINANCE TO PROFESSIONAL DEVELOPMENT. THE ABILITY TO CREATE AND FOLLOW ALGORITHMS ALSO PROMOTES EFFICIENCY AND ORGANIZATION, LEADING TO IMPROVED PRODUCTIVITY AND A GREATER SENSE OF CONTROL OVER ONE'S TASKS AND RESPONSIBILITIES. ULTIMATELY, COMPUTATIONAL THINKING EMPOWERS INDIVIDUALS TO APPROACH LIFE'S CHALLENGES WITH A CLEAR, LOGICAL, AND EMPOWERED PERSPECTIVE.

A SKILL FOR THE FUTURE

IN AN INCREASINGLY COMPLEX AND DATA-DRIVEN WORLD, THE SKILLS EMBODIED BY COMPUTATIONAL THINKING ARE BECOMING MORE VITAL THAN EVER. WHETHER YOU'RE A STUDENT LEARNING NEW CONCEPTS, A PROFESSIONAL NAVIGATING CAREER CHALLENGES, OR SIMPLY AN INDIVIDUAL TRYING TO MAKE SENSE OF EVERYDAY OCCURRENCES, THE PRINCIPLES OF DECOMPOSITION, PATTERN RECOGNITION, ABSTRACTION, AND ALGORITHMS PROVIDE A POWERFUL FRAMEWORK FOR SUCCESS. IT'S A SKILL SET THAT EMPOWERS YOU TO NOT JUST SURVIVE BUT TO THRIVE IN ANY ENVIRONMENT BY ENABLING YOU TO THINK LIKE A PROBLEM-SOLVER.

FAQ

Q: WHAT IS COMPUTATIONAL THINKING AND WHY IS IT IMPORTANT IN EVERYDAY LIFE?

A: COMPUTATIONAL THINKING IS A PROBLEM-SOLVING PROCESS THAT INVOLVES BREAKING DOWN COMPLEX PROBLEMS INTO SMALLER, MANAGEABLE PARTS (DECOMPOSITION), IDENTIFYING SIMILARITIES AND TRENDS (PATTERN RECOGNITION), FOCUSING ON ESSENTIAL DETAILS WHILE IGNORING IRRELEVANT ONES (ABSTRACTION), AND DEVELOPING STEP-BY-STEP SOLUTIONS (ALGORITHMS). IT'S IMPORTANT IN EVERYDAY LIFE BECAUSE IT ENHANCES OUR ABILITY TO THINK CRITICALLY, MAKE BETTER DECISIONS, AND SOLVE PROBLEMS MORE EFFECTIVELY IN VARIOUS PERSONAL AND PROFESSIONAL CONTEXTS, MOVING BEYOND JUST CODING.

Q: CAN YOU GIVE A SIMPLE EXAMPLE OF DECOMPOSITION IN DAILY LIFE?

A: ABSOLUTELY! IMAGINE YOU NEED TO BAKE A CAKE. DECOMPOSITION MEANS BREAKING THIS LARGE TASK INTO SMALLER STEPS LIKE: GATHERING INGREDIENTS, PREHEATING THE OVEN, MIXING DRY INGREDIENTS, MIXING WET INGREDIENTS, COMBINING WET AND DRY, POURING INTO A PAN, BAKING, AND DECORATING. EACH OF THESE IS A SMALLER, MORE MANAGEABLE PROBLEM.

Q: HOW DOES PATTERN RECOGNITION HELP US IN OUR DAILY ROUTINES?

A: PATTERN RECOGNITION HELPS US BY ALLOWING US TO IDENTIFY RECURRING SITUATIONS OR BEHAVIORS. FOR EXAMPLE, IF YOU NOTICE THAT YOU ALWAYS FEEL RUSHED IN THE MORNING, YOU'VE RECOGNIZED A PATTERN. THIS CAN THEN PROMPT YOU TO ADJUST YOUR MORNING ROUTINE TO BE MORE EFFICIENT, SAVING YOU TIME AND REDUCING STRESS. IT'S ABOUT LEARNING FROM PAST EXPERIENCES TO INFORM PRESENT ACTIONS.

Q: WHAT IS ABSTRACTION AND HOW DO WE USE IT WITHOUT REALIZING IT?

A: ABSTRACTION IS ABOUT SIMPLIFYING A COMPLEX SYSTEM BY FOCUSING ONLY ON THE ESSENTIAL DETAILS RELEVANT TO THE TASK AT HAND, IGNORING THE UNNECESSARY. WE USE IT CONSTANTLY. WHEN YOU USE A REMOTE CONTROL, YOU DON'T NEED TO UNDERSTAND THE COMPLEX ELECTRONICS; YOU INTERACT WITH AN ABSTRACTED INTERFACE THAT ALLOWS YOU TO CHANGE CHANNELS OR VOLUME. SIMILARLY, WHEN YOU GIVE DIRECTIONS, YOU ABSTRACT THE ROUTE, FOCUSING ON TURNS AND LANDMARKS, NOT EVERY TREE.

Q: HOW ARE ALGORITHMS APPLIED IN EVERYDAY LIFE, BEYOND COMPUTER PROGRAMMING?

A: ALGORITHMS ARE SIMPLY STEP-BY-STEP INSTRUCTIONS. THINK OF FOLLOWING A RECIPE TO COOK A MEAL, ASSEMBLING FURNITURE FROM INSTRUCTIONS, OR EVEN THE ROUTINE YOU FOLLOW TO GET READY FOR WORK EACH MORNING. THESE ARE ALL ALGORITHMS DESIGNED TO ACHIEVE A SPECIFIC OUTCOME. WE CREATE AND FOLLOW THEM CONSTANTLY TO GET THINGS DONE EFFICIENTLY.

Q: WHAT ARE THE MAIN BENEFITS OF DEVELOPING COMPUTATIONAL THINKING SKILLS?

A: THE MAIN BENEFITS INCLUDE IMPROVED PROBLEM-SOLVING ABILITIES, ENHANCED CRITICAL THINKING AND ANALYTICAL SKILLS, INCREASED EFFICIENCY AND ORGANIZATION, BETTER DECISION-MAKING, AND GREATER CONFIDENCE IN TACKLING CHALLENGES. IT EQUIPS YOU WITH A SYSTEMATIC APPROACH TO NAVIGATE COMPLEXITY IN ANY ASPECT OF LIFE.

Q: IS COMPUTATIONAL THINKING ONLY USEFUL FOR PEOPLE IN TECH CAREERS?

A: NOT AT ALL! WHILE IT'S FUNDAMENTAL TO COMPUTER SCIENCE, COMPUTATIONAL THINKING IS A UNIVERSAL SKILL. IT BENEFITS ANYONE WHO NEEDS TO SOLVE PROBLEMS, ORGANIZE TASKS, OR MAKE INFORMED DECISIONS, WHETHER THEY ARE ARTISTS, DOCTORS, TEACHERS, PARENTS, OR STUDENTS. IT'S ABOUT A WAY OF THINKING THAT IS APPLICABLE ACROSS ALL DISCIPLINES AND WALKS OF LIFE.

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