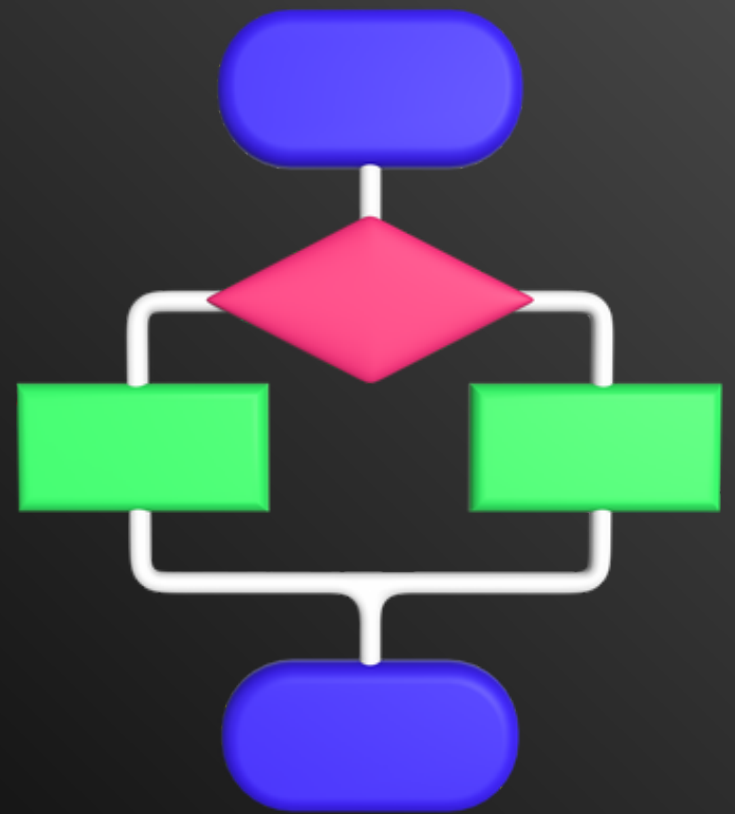


# HOW TO UNDERSTAND AN ALGORITHM?



Rithikesh Surthi



SWIPE



- **READ THE PROBLEM STATEMENT:**

**MAKE SURE YOU HAVE A CLEAR UNDERSTANDING OF THE PROBLEM THAT THE ALGORITHM IS TRYING TO SOLVE. THIS WILL GIVE YOU A CONTEXT FOR UNDERSTANDING THE ALGORITHM AND WILL HELP YOU SEE HOW IT FITS INTO THE OVERALL PROBLEM-SOLVING PROCESS.**



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- **BREAK DOWN THE ALGORITHM:**

**ONCE YOU HAVE A CLEAR UNDERSTANDING OF THE PROBLEM, START BREAKING DOWN THE ALGORITHM INTO SMALLER, MORE MANAGEABLE CHUNKS. LOOK AT EACH STEP IN THE ALGORITHM AND TRY TO UNDERSTAND WHAT IT IS DOING AND WHY IT IS NECESSARY.**



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- **LOOK FOR PATTERNS:**

**AS YOU BREAK DOWN THE ALGORITHM, TRY TO IDENTIFY ANY PATTERNS OR COMMON THEMES THAT EMERGE. THESE PATTERNS CAN HELP YOU UNDERSTAND HOW THE ALGORITHM IS WORKING AND HOW IT IS ACHIEVING ITS GOALS.**



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- **EXPERIMENT WITH SAMPLE INPUTS:**

**ONCE YOU HAVE A GOOD UNDERSTANDING OF THE ALGORITHM, TRY TESTING IT WITH SOME SAMPLE INPUTS. THIS WILL HELP YOU SEE HOW THE ALGORITHM WORKS IN PRACTICE AND WILL GIVE YOU A BETTER SENSE OF HOW IT IS SOLVING THE PROBLEM.**



- **ASK FOR HELP:**

**IF YOU ARE HAVING TROUBLE UNDERSTANDING AN ALGORITHM, DON'T BE AFRAID TO ASK FOR HELP. YOU CAN ASK QUESTIONS ON FORUMS OR SEEK OUT RESOURCES SUCH AS TUTORIALS OR EXPLANATIONS FROM MORE EXPERIENCED PROGRAMMERS.**



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**BY FOLLOWING THESE STEPS AND BEING PATIENT AND PERSISTENT, YOU CAN LEARN TO UNDERSTAND ANY ALGORITHM. IT MAY TAKE SOME TIME AND EFFORT, BUT WITH PRACTICE, YOU WILL BECOME MORE COMFORTABLE WITH ALGORITHMS AND WILL BE ABLE TO SOLVE INCREASINGLY COMPLEX PROBLEMS.**



Rithikesh Surthi



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**FOR GOOD KARMA:**

