

DESIGN THINKING IN EDUCATION

DESIGN THINKING IN EDUCATION IS AN INNOVATIVE APPROACH THAT TRANSFORMS TRADITIONAL TEACHING AND LEARNING METHODS BY EMPHASIZING EMPATHY, CREATIVITY, AND PROBLEM-SOLVING. THIS METHODOLOGY ENCOURAGES STUDENTS AND EDUCATORS TO EXPLORE CHALLENGES DEEPLY, IDEATE COLLABORATIVELY, PROTOTYPE SOLUTIONS, AND ITERATE BASED ON FEEDBACK. INTEGRATING DESIGN THINKING WITHIN EDUCATIONAL SETTINGS FOSTERS CRITICAL THINKING, ADAPTABILITY, AND REAL-WORLD APPLICATION OF KNOWLEDGE. AS SCHOOLS AND INSTITUTIONS SEEK TO PREPARE LEARNERS FOR COMPLEX, RAPIDLY CHANGING ENVIRONMENTS, DESIGN THINKING OFFERS A FRAMEWORK THAT ALIGNS WITH 21ST-CENTURY SKILLS. THIS ARTICLE EXPLORES THE PRINCIPLES OF DESIGN THINKING IN EDUCATION, ITS ADVANTAGES, PRACTICAL IMPLEMENTATION STRATEGIES, AND EXAMPLES OF SUCCESSFUL APPLICATIONS. THE DISCUSSION WILL ALSO ADDRESS POTENTIAL CHALLENGES IN ADOPTION AND FUTURE TRENDS SHAPING THIS PEDAGOGICAL APPROACH.

- UNDERSTANDING DESIGN THINKING IN EDUCATION
- BENEFITS OF DESIGN THINKING IN EDUCATIONAL SETTINGS
- IMPLEMENTING DESIGN THINKING IN THE CLASSROOM
- CHALLENGES AND SOLUTIONS IN ADOPTING DESIGN THINKING
- FUTURE TRENDS IN DESIGN THINKING FOR EDUCATION

UNDERSTANDING DESIGN THINKING IN EDUCATION

DESIGN THINKING IN EDUCATION IS A HUMAN-CENTERED APPROACH TO LEARNING THAT EMPHASIZES EMPATHY, IDEATION, PROTOTYPING, AND TESTING. ROOTED IN THE METHODOLOGIES OF DESIGN AND INNOVATION, THIS APPROACH ENCOURAGES STUDENTS TO ENGAGE DEEPLY WITH PROBLEMS BY UNDERSTANDING THE NEEDS AND EXPERIENCES OF OTHERS. IT MOVES BEYOND ROTE MEMORIZATION AND PASSIVE LEARNING BY PROMOTING ACTIVE EXPLORATION AND COLLABORATION. THE PROCESS TYPICALLY INVOLVES FIVE STAGES: EMPATHIZE, DEFINE, IDEATE, PROTOTYPE, AND TEST, WHICH GUIDE LEARNERS THROUGH SYSTEMATIC PROBLEM-SOLVING. BY INCORPORATING THESE STAGES, EDUCATORS CREATE ENVIRONMENTS WHERE CREATIVITY AND CRITICAL THINKING FLOURISH, AND STUDENTS ARE EMPOWERED TO BECOME INNOVATORS AND PROBLEM SOLVERS.

CORE PRINCIPLES OF DESIGN THINKING IN EDUCATION

THE CORE PRINCIPLES OF DESIGN THINKING REVOLVE AROUND EMPATHY, EXPERIMENTATION, AND ITERATIVE LEARNING. EMPATHY ENSURES THAT LEARNERS CONSIDER THE PERSPECTIVES AND NEEDS OF USERS OR STAKEHOLDERS. EXPERIMENTATION ENCOURAGES RISK-TAKING AND LEARNING FROM FAILURE, WHILE ITERATION INVOLVES REFINING IDEAS BASED ON FEEDBACK AND REFLECTION. THESE PRINCIPLES FOSTER A MINDSET ORIENTED TOWARD CONTINUOUS IMPROVEMENT AND ADAPTABILITY, ESSENTIAL QUALITIES FOR SUCCESS IN EDUCATION AND BEYOND.

DIFFERENCES BETWEEN TRADITIONAL AND DESIGN THINKING APPROACHES

TRADITIONAL EDUCATION OFTEN FOCUSES ON THE TRANSMISSION OF KNOWLEDGE FROM TEACHER TO STUDENT, EMPHASIZING STANDARDIZED TESTING AND MEMORIZATION. IN CONTRAST, DESIGN THINKING IN EDUCATION CENTERS ON ACTIVE PROBLEM-SOLVING, COLLABORATION, AND INNOVATION. IT ENCOURAGES STUDENTS TO QUESTION ASSUMPTIONS, EXPLORE MULTIPLE SOLUTIONS, AND EMBRACE AMBIGUITY. THIS SHIFT ENHANCES ENGAGEMENT AND DEVELOPS SKILLS APPLICABLE TO REAL-WORLD CHALLENGES, MAKING LEARNING MORE RELEVANT AND MEANINGFUL.

BENEFITS OF DESIGN THINKING IN EDUCATIONAL SETTINGS

INTEGRATING DESIGN THINKING IN EDUCATION OFFERS NUMEROUS BENEFITS THAT ENHANCE BOTH TEACHING AND LEARNING EXPERIENCES. THIS APPROACH CULTIVATES ESSENTIAL SKILLS SUCH AS CREATIVITY, CRITICAL THINKING, COLLABORATION, AND COMMUNICATION, WHICH ARE VITAL FOR STUDENT SUCCESS IN THE 21ST CENTURY. FURTHERMORE, IT PROMOTES A LEARNER-CENTERED ENVIRONMENT WHERE STUDENTS TAKE OWNERSHIP OF THEIR EDUCATION AND DEVELOP CONFIDENCE IN THEIR PROBLEM-SOLVING ABILITIES.

ENHANCING STUDENT ENGAGEMENT AND MOTIVATION

DESIGN THINKING ENCOURAGES ACTIVE PARTICIPATION THROUGH HANDS-ON PROJECTS AND COLLABORATIVE TASKS. BY INVOLVING STUDENTS IN MEANINGFUL CHALLENGES THAT CONNECT TO THEIR INTERESTS AND REAL-WORLD ISSUES, MOTIVATION AND ENGAGEMENT INCREASE SIGNIFICANTLY. THIS INTRINSIC MOTIVATION SUPPORTS DEEPER LEARNING AND RETENTION OF KNOWLEDGE.

DEVELOPING CRITICAL THINKING AND PROBLEM-SOLVING SKILLS

THROUGH ITERATIVE CYCLES OF IDEATION AND TESTING, STUDENTS LEARN TO ANALYZE PROBLEMS CRITICALLY AND DEVELOP INNOVATIVE SOLUTIONS. THIS PROCESS NURTURES HIGHER-ORDER THINKING SKILLS THAT ARE TRANSFERABLE ACROSS DISCIPLINES AND ESSENTIAL FOR FUTURE CAREER SUCCESS.

FOSTERING COLLABORATION AND COMMUNICATION

DESIGN THINKING PROJECTS OFTEN REQUIRE TEAMWORK, ENCOURAGING STUDENTS TO SHARE IDEAS, LISTEN ACTIVELY, AND BUILD ON EACH OTHER'S CONTRIBUTIONS. THESE COLLABORATIVE EXPERIENCES IMPROVE INTERPERSONAL SKILLS AND PREPARE LEARNERS FOR DIVERSE WORKPLACE ENVIRONMENTS.

LIST OF KEY BENEFITS

- PROMOTES CREATIVITY AND INNOVATION
- IMPROVES STUDENT ENGAGEMENT AND MOTIVATION
- ENHANCES PROBLEM-SOLVING AND CRITICAL THINKING ABILITIES
- ENCOURAGES EMPATHY AND USER-CENTERED PERSPECTIVES
- BUILDS COLLABORATION AND COMMUNICATION SKILLS
- SUPPORTS ADAPTABILITY AND RESILIENCE THROUGH ITERATION

IMPLEMENTING DESIGN THINKING IN THE CLASSROOM

SUCCESSFUL INTEGRATION OF DESIGN THINKING IN EDUCATION REQUIRES DELIBERATE PLANNING, APPROPRIATE RESOURCES, AND A SHIFT IN INSTRUCTIONAL STRATEGIES. EDUCATORS MUST CREATE LEARNING ENVIRONMENTS THAT ENCOURAGE EXPERIMENTATION, SUPPORT RISK-TAKING, AND PROVIDE OPPORTUNITIES FOR REFLECTION. INCORPORATING DESIGN THINKING CAN BE ACHIEVED THROUGH PROJECT-BASED LEARNING, INTERDISCIPLINARY UNITS, AND REAL-WORLD PROBLEM-SOLVING ACTIVITIES.

STEPS FOR EDUCATORS TO INTEGRATE DESIGN THINKING

TO IMPLEMENT DESIGN THINKING EFFECTIVELY, EDUCATORS CAN FOLLOW THESE ESSENTIAL STEPS:

1. **INTRODUCE THE DESIGN THINKING PROCESS:** FAMILIARIZE STUDENTS WITH THE STAGES OF EMPATHIZE, DEFINE, IDEATE, PROTOTYPE, AND TEST TO ESTABLISH A COMMON FRAMEWORK.
2. **IDENTIFY REAL-WORLD PROBLEMS:** SELECT AUTHENTIC CHALLENGES THAT RESONATE WITH STUDENTS AND CONNECT TO CURRICULAR GOALS.
3. **FACILITATE EMPATHY RESEARCH:** GUIDE STUDENTS TO UNDERSTAND THE NEEDS AND EXPERIENCES OF STAKEHOLDERS THROUGH INTERVIEWS, OBSERVATIONS, AND DATA COLLECTION.
4. **ENCOURAGE COLLABORATIVE IDEATION:** USE BRAINSTORMING SESSIONS TO GENERATE DIVERSE SOLUTIONS AND PROMOTE CREATIVE THINKING.
5. **SUPPORT PROTOTYPING AND TESTING:** PROVIDE MATERIALS AND TIME FOR STUDENTS TO CREATE TANGIBLE MODELS OR SIMULATIONS AND GATHER FEEDBACK.
6. **REFLECT AND ITERATE:** FOSTER A CULTURE WHERE STUDENTS ANALYZE OUTCOMES AND REFINE THEIR SOLUTIONS BASED ON INSIGHTS.

EXAMPLES OF DESIGN THINKING PROJECTS IN EDUCATION

DESIGN THINKING CAN BE APPLIED ACROSS VARIOUS SUBJECTS AND GRADE LEVELS. SOME EXAMPLES INCLUDE:

- CREATING SUSTAINABLE SOLUTIONS FOR LOCAL ENVIRONMENTAL ISSUES IN SCIENCE CLASSES.
- DEVELOPING USER-FRIENDLY APPS OR WEBSITES IN TECHNOLOGY COURSES.
- DESIGNING INCLUSIVE CLASSROOM MATERIALS TO SUPPORT DIVERSE LEARNERS.
- REIMAGINING HISTORICAL EVENTS THROUGH CREATIVE STORYTELLING AND PROBLEM-SOLVING.
- ADDRESSING COMMUNITY CHALLENGES SUCH AS ACCESSIBILITY OR PUBLIC HEALTH.

CHALLENGES AND SOLUTIONS IN ADOPTING DESIGN THINKING

DESPITE ITS ADVANTAGES, INCORPORATING DESIGN THINKING IN EDUCATION PRESENTS CHALLENGES RELATED TO MINDSET SHIFTS, RESOURCE ALLOCATION, AND ASSESSMENT PRACTICES. UNDERSTANDING THESE OBSTACLES AND APPLYING TARGETED SOLUTIONS CAN FACILITATE SMOOTHER ADOPTION AND SUSTAINABILITY OF THIS APPROACH.

COMMON CHALLENGES

SOME TYPICAL BARRIERS INCLUDE:

- **RESISTANCE TO CHANGE:** EDUCATORS AND INSTITUTIONS ACCUSTOMED TO TRADITIONAL TEACHING METHODS MAY HESITATE TO ADOPT NEW FRAMEWORKS.
- **LACK OF TRAINING:** TEACHERS MAY REQUIRE PROFESSIONAL DEVELOPMENT TO UNDERSTAND AND IMPLEMENT DESIGN THINKING EFFECTIVELY.
- **LIMITED RESOURCES:** TIME CONSTRAINTS, MATERIALS, AND SUPPORT CAN RESTRICT EXTENSIVE PROJECT-BASED LEARNING.
- **ASSESSMENT DIFFICULTIES:** TRADITIONAL GRADING SYSTEMS MAY NOT ALIGN WELL WITH ITERATIVE, PROCESS-FOCUSED LEARNING.

STRATEGIES TO OVERCOME CHALLENGES

TO ADDRESS THESE ISSUES, SCHOOLS AND EDUCATORS CAN:

- INVEST IN ONGOING PROFESSIONAL DEVELOPMENT FOCUSED ON DESIGN THINKING METHODOLOGIES.
- START WITH SMALL-SCALE PILOT PROJECTS TO BUILD CONFIDENCE AND DEMONSTRATE EFFECTIVENESS.
- PROMOTE A SCHOOL CULTURE THAT VALUES INNOVATION, EXPERIMENTATION, AND COLLABORATION.
- DEVELOP ALTERNATIVE ASSESSMENT METHODS THAT CAPTURE PROCESS SKILLS AND CREATIVITY.
- LEVERAGE COMMUNITY PARTNERSHIPS TO ACCESS ADDITIONAL RESOURCES AND EXPERTISE.

FUTURE TRENDS IN DESIGN THINKING FOR EDUCATION

THE APPLICATION OF DESIGN THINKING IN EDUCATION CONTINUES TO EVOLVE, INFLUENCED BY TECHNOLOGICAL ADVANCEMENTS AND CHANGING EDUCATIONAL PRIORITIES. EMERGING TRENDS SUGGEST AN INCREASING EMPHASIS ON PERSONALIZED LEARNING, DIGITAL TOOLS, AND GLOBAL COLLABORATION.

INTEGRATION WITH TECHNOLOGY AND DIGITAL TOOLS

TECHNOLOGY ENHANCES DESIGN THINKING BY PROVIDING PLATFORMS FOR VIRTUAL COLLABORATION, RAPID PROTOTYPING, AND ACCESS TO DIVERSE INFORMATION SOURCES. TOOLS SUCH AS VIRTUAL REALITY, SIMULATION SOFTWARE, AND ONLINE BRAINSTORMING APPLICATIONS EXPAND THE POSSIBILITIES FOR IMMERSIVE AND INTERACTIVE LEARNING EXPERIENCES.

FOCUS ON EQUITY AND INCLUSION

FUTURE DESIGN THINKING INITIATIVES PRIORITIZE EQUITABLE ACCESS AND INCLUSIVE PRACTICES. BY DESIGNING SOLUTIONS THAT ADDRESS DIVERSE LEARNER NEEDS AND CULTURAL CONTEXTS, EDUCATION BECOMES MORE RESPONSIVE AND JUST.

GLOBAL COLLABORATION AND CROSS-DISCIPLINARY LEARNING

DESIGN THINKING ENCOURAGES PARTNERSHIPS ACROSS SCHOOLS, COMMUNITIES, AND COUNTRIES, FOSTERING GLOBAL CITIZENSHIP AND CROSS-CULTURAL UNDERSTANDING. INTERDISCIPLINARY PROJECTS THAT INTEGRATE STEM, ARTS, AND HUMANITIES REFLECT THE COMPLEXITY OF REAL-WORLD CHALLENGES AND PREPARE STUDENTS FOR COLLABORATIVE PROBLEM-SOLVING IN DIVERSE CONTEXTS.

FREQUENTLY ASKED QUESTIONS

WHAT IS DESIGN THINKING IN EDUCATION?

DESIGN THINKING IN EDUCATION IS A PROBLEM-SOLVING APPROACH THAT ENCOURAGES STUDENTS AND EDUCATORS TO EMPATHIZE, DEFINE PROBLEMS, IDEATE, PROTOTYPE, AND TEST SOLUTIONS CREATIVELY AND COLLABORATIVELY.

HOW DOES DESIGN THINKING BENEFIT STUDENTS?

DESIGN THINKING HELPS STUDENTS DEVELOP CRITICAL THINKING, CREATIVITY, COLLABORATION, AND COMMUNICATION SKILLS BY ENGAGING THEM IN HANDS-ON, REAL-WORLD PROBLEM-SOLVING ACTIVITIES.

WHAT ARE THE KEY STAGES OF DESIGN THINKING APPLIED IN EDUCATION?

THE KEY STAGES ARE EMPATHIZE (UNDERSTANDING USER NEEDS), DEFINE (FRAMING THE PROBLEM), IDEATE (GENERATING IDEAS), PROTOTYPE (CREATING MODELS), AND TEST (EVALUATING SOLUTIONS).

HOW CAN TEACHERS INTEGRATE DESIGN THINKING INTO THEIR CURRICULUM?

TEACHERS CAN INTEGRATE DESIGN THINKING BY INCORPORATING PROJECT-BASED LEARNING, ENCOURAGING BRAINSTORMING SESSIONS, FACILITATING PROTOTYPING ACTIVITIES, AND PROMOTING ITERATIVE FEEDBACK AND REFLECTION.

WHAT CHALLENGES DO EDUCATORS FACE WHEN IMPLEMENTING DESIGN THINKING?

CHALLENGES INCLUDE LIMITED TIME, LACK OF TRAINING OR RESOURCES, DIFFICULTY IN SHIFTING TRADITIONAL TEACHING MINDSETS, AND ASSESSING OPEN-ENDED, CREATIVE STUDENT WORK.

HOW DOES DESIGN THINKING PROMOTE EQUITY AND INCLUSION IN EDUCATION?

DESIGN THINKING EMPHASIZES EMPATHY AND USER-CENTERED SOLUTIONS, ENCOURAGING EDUCATORS AND STUDENTS TO CONSIDER DIVERSE PERSPECTIVES AND CREATE INCLUSIVE LEARNING EXPERIENCES TAILORED TO VARIED NEEDS.

WHAT TOOLS AND TECHNOLOGIES SUPPORT DESIGN THINKING IN EDUCATIONAL SETTINGS?

DIGITAL COLLABORATION PLATFORMS, PROTOTYPING SOFTWARE, INTERACTIVE WHITEBOARDS, AND CREATIVE APPS LIKE SKETCH, CANVA, OR TINKERCAD HELP FACILITATE BRAINSTORMING, DESIGNING, AND TESTING IDEAS IN CLASSROOMS.

ADDITIONAL RESOURCES

1. *DESIGN THINKING FOR SCHOOL LEADERS: FIVE ROLES AND MINDSETS THAT IGNITE POSITIVE CHANGE*

THIS BOOK EXPLORES HOW SCHOOL LEADERS CAN EMBRACE DESIGN THINKING TO FOSTER INNOVATION AND IMPROVE EDUCATIONAL OUTCOMES. IT OUTLINES FIVE CRITICAL ROLES AND MINDSETS NECESSARY FOR DRIVING MEANINGFUL CHANGE IN SCHOOLS. THROUGH PRACTICAL EXAMPLES, IT ILLUSTRATES HOW DESIGN THINKING CAN TRANSFORM LEADERSHIP PRACTICES AND SCHOOL CULTURE.

2. *DESIGN THINKING FOR EDUCATORS*

A PRACTICAL GUIDE AIMED AT TEACHERS AND SCHOOL STAFF, THIS BOOK INTRODUCES THE FUNDAMENTALS OF DESIGN THINKING TAILORED SPECIFICALLY FOR EDUCATIONAL SETTINGS. IT PROVIDES TOOLS AND ACTIVITIES THAT ENCOURAGE CREATIVITY, COLLABORATION, AND PROBLEM-SOLVING AMONG STUDENTS. THE BOOK ALSO HIGHLIGHTS HOW DESIGN THINKING CAN BE INTEGRATED INTO CURRICULUM AND INSTRUCTION TO ENHANCE LEARNING EXPERIENCES.

3. *EMPATHY AND EDUCATION: DESIGN THINKING AS A TOOL FOR STUDENT-CENTERED LEARNING*

FOCUSING ON THE ROLE OF EMPATHY IN EDUCATION, THIS BOOK DEMONSTRATES HOW DESIGN THINKING HELPS EDUCATORS CREATE MORE STUDENT-CENTERED LEARNING ENVIRONMENTS. IT EMPHASIZES UNDERSTANDING STUDENT NEEDS AND PERSPECTIVES AS THE FOUNDATION FOR EFFECTIVE TEACHING STRATEGIES. THE BOOK INCLUDES CASE STUDIES AND PRACTICAL METHODS FOR APPLYING EMPATHETIC DESIGN IN CLASSROOMS.

4. *DESIGNING INNOVATION IN EDUCATION: CREATING LEARNING EXPERIENCES THAT MATTER*

THIS TITLE DELVES INTO THE PROCESS OF USING DESIGN THINKING TO DEVELOP INNOVATIVE EDUCATIONAL PROGRAMS AND EXPERIENCES. IT GUIDES EDUCATORS IN IDENTIFYING CHALLENGES, BRAINSTORMING SOLUTIONS, AND PROTOTYPING NEW IDEAS. THE BOOK STRESSES THE IMPORTANCE OF ITERATIVE DESIGN AND FEEDBACK TO REFINE LEARNING EXPERIENCES THAT TRULY ENGAGE STUDENTS.

5. *CREATIVE CONFIDENCE: UNLEASHING THE CREATIVE POTENTIAL WITHIN US ALL*

THOUGH NOT EXCLUSIVELY ABOUT EDUCATION, THIS INFLUENTIAL BOOK BY TOM KELLEY AND DAVID KELLEY OFFERS VALUABLE INSIGHTS INTO CULTIVATING CREATIVITY THROUGH DESIGN THINKING. IT ENCOURAGES EDUCATORS AND STUDENTS ALIKE TO OVERCOME FEAR OF FAILURE AND EMBRACE EXPERIMENTATION. THE PRINCIPLES OUTLINED SUPPORT THE DEVELOPMENT OF A CREATIVE MINDSET ESSENTIAL FOR 21ST-CENTURY LEARNING.

6. *THE INNOVATOR'S MINDSET: EMPOWER LEARNING, UNLEASH TALENT, AND LEAD A CULTURE OF CREATIVITY*

GEORGE COUROS PRESENTS STRATEGIES FOR FOSTERING AN INNOVATIVE CULTURE WITHIN SCHOOLS, GROUNDED IN DESIGN THINKING PRINCIPLES. THE BOOK ENCOURAGES EDUCATORS TO EMPOWER STUDENTS TO TAKE RISKS AND DEVELOP PROBLEM-SOLVING SKILLS. IT ALSO DISCUSSES LEADERSHIP APPROACHES THAT SUPPORT CONTINUOUS INNOVATION IN EDUCATIONAL SETTINGS.

7. *DESIGN THINKING FOR THE GREATER GOOD: INNOVATION IN THE SOCIAL SECTOR*

WHILE FOCUSING BROADLY ON SOCIAL INNOVATION, THIS BOOK INCLUDES APPLICATIONS OF DESIGN THINKING IN EDUCATIONAL CONTEXTS. IT OFFERS FRAMEWORKS FOR TACKLING COMPLEX SOCIAL CHALLENGES THROUGH COLLABORATIVE AND HUMAN-CENTERED DESIGN. EDUCATORS CAN DRAW INSPIRATION FROM CASE STUDIES TO ADDRESS EQUITY AND INCLUSION IN SCHOOLS.

8. *MINDSETS FOR DESIGN THINKING IN EDUCATION: DEVELOPING A CULTURE OF INNOVATION AND PROBLEM-SOLVING*

THIS BOOK OUTLINES THE KEY MINDSETS EDUCATORS AND STUDENTS NEED TO SUCCESSFULLY IMPLEMENT DESIGN THINKING IN SCHOOLS. IT HIGHLIGHTS CURIOSITY, EMPATHY, OPTIMISM, AND RESILIENCE AS FOUNDATIONAL ATTITUDES. PRACTICAL

STRATEGIES AND CLASSROOM EXAMPLES DEMONSTRATE HOW TO NURTURE THESE MINDSETS TO SUSTAIN INNOVATION.

9. DESIGN THINKING IN THE CLASSROOM: A PRACTICAL GUIDE FOR TEACHERS

A HANDS-ON RESOURCE FOR EDUCATORS NEW TO DESIGN THINKING, THIS BOOK PROVIDES STEP-BY-STEP INSTRUCTIONS FOR INTEGRATING THE APPROACH INTO DAILY TEACHING. IT COVERS ACTIVITIES, LESSON PLANS, AND ASSESSMENT TECHNIQUES THAT PROMOTE CREATIVE PROBLEM-SOLVING. THE BOOK AIMS TO MAKE DESIGN THINKING ACCESSIBLE AND IMPACTFUL FOR TEACHERS AND LEARNERS ALIKE.

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