FACULTY OF ENGINEERING TECHNOLOGY

PROGRAMME-SPECIFIC PART EDUCATION AND EXAMINATION REGULATIONS

2025-2026

For the bachelor's programme of:

Mechanical Engineering (B-ME)

DATE: 1 September 2025

UNIVERSITY OF TWENTE.

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PROGRAMME-SPECIFIC PART

The regulations are part of the programme-specific component of the students' charter, including the Education and Examination Regulations (EER), of the Mechanical Engineering bachelor programme of the University of Twente's Engineering Technology Faculty.

SECTION B1 GENERAL

ARTICLE B1.1 LANGUAGE

1. The language of communication, instruction and examination in the bachelor programme is English.
2. The BSc-thesis is executed in English. Exceptions require approval of the Examination Board before the start of the thesis. If an exception is granted, the student is obliged to provide an executive summary of the final report in English.

ARTICLE B1.2 SAFETY

Working in a laboratory or workshop is subject to certain safety requirements. Students are obligated to inform themselves of these rules and comply with them. To be allowed to work in a laboratory or workshop, the student must be registered as a student at the UT and have obtained appropriate instructions to work in the said laboratory..

SECTION B2 CONTENTS AND STRUCTURE OF THE PROGRAMME

ARTICLE B2.1 AIM OF THE PROGRAMME

This programme educates bachelors to a junior-academic level of working and thinking. Educating an attitude and skills directed towards solving problems and designing new products, processes and systems. The development of the communication and social skills that are necessary to perform satisfactorily as a bachelor in a multidisciplinary team is an integral part of the programme. The programme covers the foundations of the broad field of mechanical engineering, with an emphasis on practical applications of knowledge, the generalisation of specific knowledge into universal solutions or methods, and the development of the student's learning capacity.

ARTICLE B2.2 PROGRAMME INTENDED LEARNING OUTCOMES

The qualities relating to the knowledge, understanding and skills that the student should have acquired upon completing the programme are as follows (Article A2.1.1 of the General Part):

The objective of the programme is to educate bachelors with a particular focus on attaining the following competences:

a. Comprehensive and thorough technical and scientific knowledge of the various fields of mechanical engineering (mechanics, fluid mechanics, heat transfer, energy, systems and control, dynamic systems, design and construction) and the skills to use this knowledge effectively.
b. Thorough knowledge of mechanical engineering methods, paradigms and tools to analyse and interpret data.
c. The ability to contribute to the solution of mechanical engineering problems using a systematic approach that includes analysis, the formulation of subproblems and the evaluation of the implementation.
d. The ability to integrate theory and practice from a range of mechanical engineering subjects.
e. The ability to apply techniques, skills and modern engineering tools whenever relevant for mechanical engineering practice.
f. The ability to design a mechanical system, component or process that meets the desired needs within defined boundary conditions.
g. The ability to effectively communicate with professionals about one's own work and its relevance and impact in various contexts.
h. The ability to operate as part of a (interdisciplinary and international) team, to take initiative, and to recognise and fill gaps in one's knowledge.
i. The ability and attitude to evaluate the impact of one's own work from a technological, social and ethical perspective and take professional responsibility for one's decisions.
j. The ability to continue one's education in a subsequent master's programme.
k. The attitude and ability to maintain and continuously improve one's academic and professional skills (life-long learning).

In the B-ME UT programme, during the first and second year of the programme, academic competences are taught as part of the "Academic skills" study line. During the third year, these competences are part of Academic Research & Skills and the Bachelor and Societal Embedding Assignment.
In the B-ME UT/VU programme, during the whole programme, academic and professional skills are taught as part of the "Project & Academic skills" study line. Parallel to the BSc assignment in the third year the academic skills are part of Research Skills.
Academic competences include e.g. teamwork, presentation skills, self-reflection/feedback, ethics for engineers, academic English, conducting scientific research and orientation and information regarding further education.

ARTICLE B2.3 STRUCTURE IN GENERAL

1. The bachelor's programme is a 3-year full-time programme. An academic year is divided into four quartiles with a schedule of ten (or eleven) weeks (B-ME UT) or two semesters with a schedule of 8, 8 and 4 weeks (B-ME UT/VU).
2. The total study load is 180 EC (1 EC = 28 hours of study): 150 EC for the core programme (major) and 30 EC for the minor.
3. The core programme (major) consists of 10 coherent UT modules (B-ME UT) or 5 semesters (B-ME UT/VU) in which disciplinary knowledge, skills and attitude are developed and assessed in the most coherent way possible. These modules / semesters are made up of different, interconnected study units with varying EC's counting up to 15 EC / 30 EC.

a. Modules 1-4 (B-ME UT) or semester 1 and 2 (B-ME UT/VU), provided in the first year of the programme, offer an introduction to mechanical engineering. These modules or semesters are orientational and selective (selective because of the Binding Recommendation at the end of the first year).
b. Modules 5-8 (B-ME UT) or semester 3 and 4 (B-ME UT/VU) cover the second year of the programme and contain integrated topics. Students are provided with more in-depth knowledge.
c. The third year of the programme consists of the Minor phase (Modules 9 and 10 or semester 5) and the graduation phase of 15/30 EC (Modules 11 and 12 or semester 6).

4. Each module/semester of the study programme in year 1 (B1) and year 2 (B2) of the programme has a practical exercise in the form of a project that is an integral part of the module/semester. In addition, other practical exercises may be part of study units throughout the entire programme. More information on these practical exercises can be found in the descriptions of the study units of the study programme on Osiris and/or Canvas.

ARTICLE B2.4 DESCRIPTION OF MODULES/SEMESTERS AND STUDY UNITS

1. As required by Article A3.6 of the General Part, Table 1-6 lists the modules/semesters, the study units and the corresponding study load (EC) for study units. If applicable the number of tests, their form, their relative weighting and any required prior knowledge, can be found in Osiris.
2. The formal sequence of the study units and their exams is the order as recorded in the tables.
3. Possible prerequisites are listed in Osiris.
4. More extensive module and/or study unit descriptions can be found in the Osiris course catalogue and relevant Canvas pages.
5. When students follow study units organised by other UT degree programmes or other educational institutes, then the Education and Examination Regulations, as well as the Rules and Regulations of the related Examination Board, of that programme apply. If no regulations are available the ME Examination Board will take a decision.

*Table 1: Description of Modules Year 1 (B-ME UT). * Modules/study units that can be followed by students from other programmes and/or exchange students.*

#	Module/study unit code	Module/study unit name	EC
1	**202300048**	**ME - 1 - Design and Manufacturing**	**15**
	202300049	Statics *	2.0
	202300050	Modelling and Programming 1*	1.0
	202300051	Technical Product Definition	1.5
	202300052	Manufacturing Systems	2.5
	202300053	Project Design of a Mechanical Tool & Ac. Skills 1	4.0
	202300054	TIME *	1.5
	202300055	Calculus 1A	2.5
2	**202000108**	**ME - 2 - Energy and Materials**	**15**
	202300056	Engineering Thermodynamics 1 *	3.0
	202300057	Modelling and Programming 2 *	1.0
	202000110	Materials Science 1 *	3.0
	202000111	Project Analysis of an Energy System & Ac. Skills 2 (≥ week 4)	4.0
	202000112	Project Design of a Mechanical Tool & Ac. Skills 1 (week 1, 2)	1.0
	202001201	Calculus 1B	3.0
3	**202000114**	**ME - 3 - Energy and Sustainability**	**15**
	202300058	Engineering Thermodynamics 2 *	1.5
	202300059	Modelling and Programming 3 *	1.5
	202000116	Materials Science 2 *	2.0
	202000117	Introduction to LCA	2.0
	202000119	Project Design of an Energy System & Ac. Skills 3	5.0
	202001218	Calculus 2	3.0

4	**202000121**	**ME - 4 - Design and Mechanics ***	**15**
	202300060	Mechanics of Materials *	3.0
	202300061	Modelling and Programming 4 *	1.5
	202000282	Machine Elements *	3.0
	202300283	Project Design of a Construction & Ac. Skills 4	4.5
	202001210	Linear Algebra	3.0

*Table 2: Description of Modules Year 2 (B-ME UT). * Modules/study units that can be followed by students from other programmes and/or exchange students.*

#	Module/study unit code	Module/study unit name	EC
5	**202000126**	**ME - 5 – Dynamic Systems ***	**15**
	202000127	Dynamics 1 *	4.0
	202000128	System Analysis *	4.0
	202500031	Design Principles for Precision Mechanisms 1	2.5
	202500032	Project Design of Dynamic Systems & Ac Skills 5	2.5
	202001228	Vector Calculus	2.0
6	**202000131**	**ME - 6 - Product Design**	**15**
	202000132	Processing and Properties of Polymers 8 *	3.0
	202000133	Elasticity Theory *	2.0
	202000134	Tribology *	2.0
	202300135	Project Product Design & Ac. Skills 6	8.0
7	**202000137**	**ME - 7 - Fluid Mechanics & Heat Transfer ***	**15**
	202000138	Fluid Mechanics 1 *	3.5
	202000139	Heat Transfer *	3.5
	202000140	Project Fluids Engineering & Ac. Skills 7	8.0
8	**202000142**	**ME - 8 - Mechatronic Design**	**15**
	202000143	Dynamics 2 *	4.5
	202000144	System and Control Engineering *	4.0
	202000145	Project Mechatronics & Ac. Skills 8	6.5

*Table 3: Description of Modules Year 3 (B-ME UT). * Modules/study units that can be followed by students from other programmes and/or exchange students.*

#	Module/study unit code	Module/study unit name	EC
9	**Na**	**ME - 9 - Minor**	**15**
10	**Na**	**ME - 10 - Minor**	**15**
11	**202000147**	**ME - 11 - Production Systems Engineering ***	**15**
	202000148	Statistics	2.5
	202000149	Introduction to Finite Element Method *	3.5
	202000150	Academic Research & Skills	3.5
	202000151	Project Production Systems Engineering	5.5
12	**202000153**	**ME - 12 - ME Bachelor Assignment**	**15**
	202000154	ME BSc Research Assignment	12.0
	202000155	ME BSc Societal Embedding Assignment	3.0

Table 4: Description of Semesters Year 1 (B-ME UT/VU).

#	Semester/study unit code	Semester/study unit name	EC
1	**202500209**	**Design of Structures and Machines**	**30**
	201900010	Statics	4.0
	201900011	Mechanics of Materials	4.0
	202400445	Mathematics: Linear Algebra & Calculus 1	4.0
	202500210	Project & Ac. Skills 1: Design of Structures and Machines	7.5
	201900014	Intro to Mechanical Engineering	1.0
	202500211	Manufacturing	5.0
	201900012	Materials Science: Metals and Alloys	4.0
	201900016	Continuous Assessment 1	0.5
2	**201900017**	**Energy Transition & Sustainability**	**30**
	201900020	Thermodynamics	7.5
	202400447	Mathematics: Linear Algebra & Calculus 2	4.0
	201900019	Project & Academic Skills 2: Energy Transition & Sustainability	9.0
	201900022	Design Engineering	1.5
	201900024	Life Cycle Analysis	3.0
	201900023	Manufacturing Systems	2.0
	201900021	Renewable Energy Technology	2.5
	201900025	Continuous Assessment 2	0.5

Table 5: Description of Semesters Year 2 (B-ME UT/VU).

#	Semester/study unit code	Semester/study unit name	EC
3	**202400448**	**Smart Manufacturing Systems**	**30**
	202000008	Dynamics	3.5
	202000009	Mechanical Vibrations	3.5
	202000007	Mathematics: Differential Equations	4.0
	202400449	Project & Academic Skills 3: Smart Manufacturing Systems	8.5
	202500112	Mass Manufacturing	3.5
	202000022	Smart Industry	2.5
	202000010	Materials Science: Polymers	2.0
	202000011	Tribology	2.0
	202000015	Continuous Assessment 3	0.5
4	**202000016**	**Technology for Healthcare**	**30**
	202000021	Elasticity Theory + FEM	3.5
	202100008	Mathematics: Vector Calculus	2.0
	202400450	Project & Academic Skills 4: Technology for Healthcare	11.0
	202000020	Precision Engineering	2.0
	202000019	Control Engineering	4.0
	202000018	System Analysis	3.0
	202000012	Signal Analysis	2.0
	202000023	Systems Engineering	2.0
	202000025	Continuous Assessment 4	0.5

Table 6: Description of Semester Year 3 (B-ME UT/VU).

#	Semester/study unit code	Semester/study unit name	EC
5	**Na**	**Minor**	**30**
6	**202100007**	**Thermal & Fluid Engineering and BSc Assignment**	**30**
	202100009	Fluid Mechanics	3.5
	202000017	Mathematics: Statistics & Probability	2.0
	202100011	Project & Academic Skills 5: Thermal & Fluid Engineering	3.0
	202100010	Heat Transfer	3.5
	202100012	BSc Assignment	12.0
	202100013	Research Skills	5.0
	202100014	Continuous Assessment 5	1.0

ARTICLE B2.5 ADMISSION REQUIREMENTS

1. Before the start of a study unit, the student must meet the prerequisites and/or subject-specific requirements for that study unit as mentioned in Osiris.
2. Students are entitled to start with the project of module 8 (202000145) if the students have successfully completed Dynamics 1 (202000127) or System Analysis (202000128) in module 5 and have to resit no more than one study unit of module 4 (B-ME UT).
3. Students are entitled to start with the minor phase (Article 2.7) in the third year after having:
   a. completed 90 EC of which at least 52 EC of the first academic year and
   b. have no more than 4 EC of unfinished courses of previous years that are delivered concurrently with the quartile of the minor (B-ME UT) or no more than 8 EC of unfinished courses of previous years that are delivered concurrently with the semester of the minor (B-ME UT/VU).
4. Students are entitled to start with Academic Research & Skills (202000150) in module 11 after having completed the first academic year (B1), 26 EC in module 5 & 6, 11.5 EC in module 7 and 8.5 EC in module 8. The execution of the BSc research assignment (202000154) in module 12 cannot start before the proposal is graded by the supervisor with a pass (B-ME UT).

   Students are entitled to start with Research Skills (202100013) in semester 6 after having completed the first academic year (B1), 26 EC in semester 3, and 20 EC in semester 4. The execution of the BSc assignment (202100012) in semester 6 cannot start before the proposal is graded by the supervisor with a pass (B-ME UT/VU).

ARTICLE B2.6 SIMULTANEOUSLY FOLLOWING COURSES FROM MULTIPLE MODULES

1. Although the study units are registered separately, the study units within a module are coherent and priority should be given to study units supporting the project..
2. Passing study units of the lowest unfinished academic year shall be prioritised unless discussed otherwise with the study adviser.
3. For the benefit of the student's study progress and to avoid (further) delays, students who have to redo (parts of) a module (B-ME UT) or semester (B-ME UT/VU) are not allowed to participate in more than 18 (B-ME UT) respectively 36 (B-ME UT/VU) ECs of study units without a study plan that is developed in consultation with the study adviser and approved by the programme coordinator.
4. It is not allowed to enrol in two projects in the same quartile (B-ME UT) or semester (B-ME UT/VU). Exceptions can be granted by the examination board, based upon a study plan approved by the study advisor.

ARTICLE B2.7 MINOR PHASE

1. The minor is a structured, coherent and complete educational package of academic level corresponding to the level of a third-year student. The minor consists of several study units worth a total of 30 credits which contribute to the students' general academic competences and/or to the enrichment of their knowledge and skills in a specialist field.
2. Students can choose (a combination of):
   a. Specialisation minors that deepen the knowledge of the bachelor's programme
   b. High Tech Human Touch (HTHT) minors
   c. Educational Minor or Crossing Borders
   d. Other UT minors from which students may choose are outlined in the minor admission matrix, which is available on the UT minor website.
   e. Transfer minor (transfer to a master of another degree programme) by means of a Pre-master's programme as a Minor.
   f. Minor at another educational institute: instead of attending modules at the UT, students can include another Minor in their programme, consisting of components offered outside the University of Twente. In that case a written approval of the Examination Board is required. Such free minors must meet the following criteria:
      i. The minor should be of a sufficient (bachelor's) level.
      ii. No or minimal overlap with the subject matter already dealt with, in case of overlap the Examination Board decides if the amount of overlap is allowed
      iii. A non-UT module has a maximum of 1 language course for which the institution grants a maximum of 5 EC, excluding academic language subjects.
   g. Internship Mechanical Engineering minor (202100065)

3. For the standard UT minors, students must apply for the minor via Osiris before the date set by the minor's organisation and enrol in the minor in question via Osiris before the start of the minor. Students should start arranging for a minor abroad in the first semester of the second year. If the student has to (re)do study units for the year(s) before, scheduling conflicts (being unable to participate in all scheduled activities or an uneven division of the study workload) or an uneven division of the workload are unavoidable
4. Studying abroad requires the student to consult the Exchange Coordinator. Approval for the for the course list is mandated by the examination board to the study adviser

ARTICLE B2.8 CONNECTING MASTER'S PROGRAMMES

1. Successful completion of the degree programme provides direct admission to the master programmes Mechanical Engineering, Robotics and Sustainable Energy Technology of the University of Twente.
2. The Education and Examination Regulations (EER) of the Master's programme provides information on any pre-master programmes.

ARTICLE B2.9 QUALITY ASSURANCE

The quality of education is systematically monitored according to the Plan-Do-Check-Act (PDCA) cycle. The quality assurance system consists of at least the following parts:

1. The organisation within the faculty, with all actors who play a role in the management, organisation, development and execution of the study programme. Through a clear division of tasks and responsibilities and mutual coordination, the actors jointly ensure a high-quality study programme.
2. The evaluation system that monitors the quality of the study programme and provides the actors with information on the quality and is therefore aimed at educational development and continuous quality improvement. This will at least include the execution of the following activities on an annual basis:
   a. The programme director writes an annual programme development plan, which is subject to advice from the programme committee. Improvement points regarding the study units are made available to students and staff.
   b. **Questionnaires and/or panel discussions halfway through and/or at the end of each module or semester:** participating students are asked to fill out questionnaires either teachers and students will engage in discussions to exchange thoughts and experiences. Teachers may be required to respond to the evaluation results to the programme committee.
   c. **Study unit or module evaluations:** a module or semester will be evaluated at least once every three years; if a study unit does not meet the criteria, it will be evaluated again the next time it is taught to determine whether appropriate measures have been taken.
   d. **Incidental activities:** if necessary, further research will be conducted in addition to the aforementioned activities (e.g. research into facilities, time usage studies, exit studies, questionnaires among alumni, etc.).
   e. **NSE & NAE** provide input for possible improvements within the programme.
3. Teachers within the programme are required to acquire their University Teaching Qualification (UTQ) within 3 years upon starting their position.

SECTION B3 TEACHING AND ASSESSMENT

ARTICLE B3.1 ASSESSMENT IN GENERAL

1. Each study unit examination consists of one or multiple test(s). These may include individual and group assessments, such as written and oral tests, written assignments, project assignments, practical exercises and different forms of presentations (e.g., poster and pitch).
2. Oral examinations and other examination components not listed in the assessment schedule will be held at a time set by the examiner(s) and the student together and, if the student so desires, within a month after the conclusion of the education for the study unit in question.
3. Absence during a study period may result in the failing of tests, examinations, projects, or practical exercises. In the event of force majeure (e.g. illness), the student must contact the lecturer and study adviser as soon as possible.
4. A request for an exemption of one or multiple tests or examinations (Article A2.3.1 of the General Part) will be judged by the Examination Board on the conditions set out in its Rules and Regulations.
5. Information on the practical procedures regarding the course of examinations and completing projects is available in the Rules and Regulations of the Examination Board.
6. Unless otherwise stated, practical exercises or projects can, only be done once per academic year.
7. Default mode of examinations is on-site.

ARTICLE B3.2 RESULTS

In addition to Article A3.3 of the General Part the following programme-specific rules regarding results apply.

1. If a written test has been completed (passed with 5.5 or higher) the student may retake the test during a regular, scheduled resit.
2. For all other test types (e.g., assignments or presentations) the grade is final if the test has been completed (passed with 5.5 or higher). If a student would like to upgrade their grade next academic year (due to exceptional circumstances), the student must have a written confirmation from the examination board.
3. The following applies for passing a project:
   The grading of the project should be stated in the project description and should be available at the start of the project. There should be a resit for every assessment.

SECTION B4BACHELOR ASSIGNMENT

ARTICLE B4.1 GENERAL

1. The duration of the bachelor research assignment corresponds with a study load of 12 EC.
2. The duration of the societal embedding assignment corresponds with a study load of 3 EC.

ARTICLE B4.2 REQUIREMENTS

1. The bachelor research assignment is an internal assignment provided by the University of Twente or an external graduation assignment provided by another university, a research institute, or a company.
2. The protocol for registration, acquiring and carrying out the bachelor's thesis project is set out in the manual 'BSc Assignment Mechanical Engineering'.
3. The requirements for passing the bachelor research assignment are described in the manual 'BSc Assignment Mechanical Engineering'.

ARTICLE B4.3 GRADUATION COMMITTEE

1. The graduation committee assesses the students' work and is present at the final bachelor conference
2. The committee consists at least of three people:
   The chair is an assistant, associate or full professor appointed by the examination board. One of the three ME staff members is preferred to be the daily supervisor.

ARTICLE B4.4 WITH DISTINCTION / CUM LAUDE

As required by Article A4.3 of the General Part, we describe here the criteria for receiving a distinction upon graduation.

1. When students have demonstrated exceptional competence and ability in their bachelor programme, this can be stated on the diploma with the words 'Cum Laude'.
2. The Examination Board awards the 'Cum Laude' judicium when a student meets each of the following conditions:
   a. The weighted average of the examination grades for the study units of the ME BSc programme, excluding project grades, the bachelor research assignment and the study units of the first semester of the third academic year (minor), is at least 8.0. Study units that were not evaluated with a grade or for which an exemption was given are not included.
   b. Any additional study units (not part of the regular ME BSc programme) are not included under the aforementioned regulations.
   c. The grade for the bachelor research assignment is at least 8.5.
   d. Exemptions were granted for no more than a fourth of the total bachelor programme
   e. The bachelor programme was completed within four years, unless exceptional circumstances, in the opinion of the examination board, justify a greater exceeding of the study duration.
   f. No formal record of fraud is documented in the students' file.
3. If these guidelines are not fully met, the programme director can submit a substantiated proposal to the examination board to award the designation 'Cum Laude'. In that case, the special circumstances and the exceptionality of the achievement must be properly substantiated.

SECTION B5 STUDENT GUIDANCE

In addition to the stipulation of Article A5 of the General Part.

ARTICLE B5.1 STUDY ADVICE

1. If a student thinks they are confronted with personal circumstances that could influence their study progress, it is the responsibility of the student to report these circumstances to a study adviser immediately or as soon as possible.
2. The permission for extra facilities as mentioned in Article A5.2 of the General Part is mandated by the examination board to the study adviser.
3. The study adviser will – upon or without request – advise the examination board, the programme director, individual lecturers/examiners and students regarding any problems with the study workload or study progress of individual students or groups of students.
4. If a student wishes to make an agreement from which rights can be derived, the agreements between the student and the study adviser need to be approved by the Examination Board.

ARTICLE B5.2 STUDY GUIDANCE FIRST YEAR STUDENTS

1. First-year B-ME UT students will be assigned a mentor and a study adviser at the start of their programme. The mentor and the study adviser are connected to the programme as an employee. The mentor is the first point of contact and supervises and advises students during the first year of their bachelor programme. First-year B-ME UT students will be invited for a mandatory introductory meeting by their mentor at the start of their programme. Furthermore, the mentor will periodically discuss the students' study progress with them if their results provide reason to do so. In case of more study related problems or personal circumstances the study adviser can be contacted.
2. First-year B-ME UT/VU students will be invited for a mandatory introductory meeting by the study advisers at the start of their programme. The students can choose either study adviser. The study advisers are connected to the programme as an employee. The study adviser supervises and advises students during their bachelor programme. Furthermore, the study adviser will periodically discuss the students' study progress with them if their results provide reason to do so.

SECTION B6 STUDENT PROGRESS EVALUATION

ARTICLE B6.1 RECOMMENDATION ON CONTINUATION OF STUDIES

At the end of their first academic year of registration for the degree programme, every student is given a definitive written recommendation about continuing their studies within the degree programme (Articles A6.2 and A6.3 of the General Part).

Students of the B-ME UT/VU programme receive only 1 preliminary recommendation on the continuation of studies, as described in Article 6.1.3 of the General Part.

SECTION B7 FINAL PROVISIONS

ARTICLE B7.1 TRANSITIONAL ARRANGEMENT

Any active transitional arrangements are mentioned below.

NA

ARTICLE B7.2 ENTRY INTO FORCE

These Regulations enter into force on 1 September 2025 and replace the Regulations dated 1 September 2024.

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