4. Timetable

The submitted program can be evaluated only if a source file that corresponds to the chosen programming environment exists and it contains the source codes belonging to the solution of the exercise parts.

During evaluation, solutions that generate runtime errors or solutions that are partially correct should also be evaluated. The mark can be awarded if the part of the code that corresponds to the given element is flawless. Marks are awarded for displaying independently of the use of accents.

ļ	A program named timetable exists	
•	Saved the source code of the program as timetable	1 mark
	The mark can be awarded only if the name is accurate and the program is	
	free from compilation or runtime errors.	
	Messages on the screen	
	There is an exercise part that requires displaying	
	information on the screen, where the exercise number is	
	displayed and - if required - refers to the content to be	
	entered by the user	1 mark
	Displays the exercise number for each exercise part that requires	
	displaying information on the screen	1 mark
	The previous mark can be awarded only if at least 4 numbered exercise	
	parts were solved.	
	Processing the input file and storing the data	
	Opens the file for reading before reading from it and read one data	
	correctly	1 mark
	Reads one data line correctly	1 mark
	Reads all data correctly	1 mark
ŀ	Stores all data correctly	1 mark
	Determining the number of trains and the number of stations	1 1
	Determines the number of trains and displays it according to the example	1 mark
	The mark cannot be awarded if the displayed value is incorrect.	1
	Determines the number of stations correctly Displays the correct number of stations according to the example	1 mark 1 mark
	The mark can be awarded if the index of the last station is displayed.	1 IIIai K
ſ	Determining the longest waiting time	
1	Determines the waiting time of at least one train at one station correctly	1 mark
	Determines each waiting time correctly for each station for at least one	1 mark
	train or for each train for at least one station	1 mark
	Determines each waiting time correctly for each train and each station	1 mark
	Determines the longest waiting time	1 mark
	The mark can be awarded if the waiting times were determined	
	incorrectly but the maximum is determined correctly.	
	Determines the train and the station that belong to the longest of the	
	determined waiting times	2 marks
	The mark cannot be broken down.	
	Displays the train and the station identifier and the waiting time	
	according to the example	1 mark

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Reading the train identifier and the time		
Reads and stores a train identifier	1 mark	
Reads and stores a time (hour, minute)	1 mark	
The contents of the communication with the user are according to the		
example	1 mark	
Deviation of the journey time of the train with the read identifier from the	•	
scheduled journey time		
Determines the time of departure of the train with the read identifier	1 mark	
Determines the time of arrival of the train with the read identifier at the		
destination	1 mark	
Calculates the journey time of the given train	1 mark	
Examines one of the three possible cases (longer, shorter or accurate		
journey time)	1 mark	
Examines all three possible cases	1 mark	
Determines and displays the deviation correctly in at least one case	1 mark	
Determines and displays the deviation correctly in each case	1 mark	
The display corresponds to the example	1 mark	\Box
The mark can be awarded if the displayed value is incorrect but results		
from a calculation.		
Creating file journeyX.txt		
Creates the file name that contains the train identifier	1 mark	
Creates the file with the correct name and writes into the file	1 mark	\blacksquare
The following marks can be awarded independently from the correctness	1 1111111	
of the file name.		
The file contains only times of arrival that belong to the given train	1 mark	
The file contains all times of arrival that belong to the given train	1 mark	Ħ
The file contains one station per line in increasing order	1 mark	\blacksquare
In the file the data are displayed according to the example	1 mark	\equiv
Determining the position of trains at the given time	1 IIIwiii	
Displays the identifier of a train that is on its way at the given time	1 mark	
The mark cannot be awarded if an incorrect train identifier is also	1 IIIMIN	
displayed		
Determines the identifier of exactly those trains that are on their way at		
the given time	2 marks	
The mark cannot be broken down.	2 marks	
Gives correct result if the train is waiting at a station (10:04, 7:17)	1 mark	
Gives correct result if the train departs in the minute of arrival (8:45)	1 mark	
Gives correct result if the train is running between two stations (10:20)	1 mark	=
Gives correct result if the train is running between two stations (10.20)	1 IIIUIK	
(6:50) or the last two stations (9:05)	1 mark	
Determines the position correctly for each state in the case of a train	1 mark	\vdash
Determines the position correctly for each state in the case of each train	2 marks	\vdash
The mark cannot be broken down.	2 marks	
Displays the result according to the example	1 mark	
The mark can be awarded if at least one line of the output is correct.	1 111a1K	
Total:	45 marks	
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