

#### Завдання 4.

Your favorite bicycle daily rental store has just introduced a new Customer Relationship Management system and asked you, one of their most loyal members, to test it.

The implemented features are as follows:

Anyone can rent a bicycle, but members receive a 20% discount

However, if the return deadline is missed, the discount is no longer available

After 15 rentals, members get a gift: a T-Shirt

Decision table describing the implemented features looks as follows (see the decision table in attachment here:

Conditions	R1	R2	R3	R4	R5	R6	R7	R8
Being a member	T	T	T	T	F	F	F	F
Missed deadline	T	F	T	F	T	F	F	T
15th rental	F	F	T	T	F	F	T	T
Actions								
20% discount		X		X				
Gift T-Shirt			X	X				X

#### 1 Умови завдання:

Based ONLY on the feature description of the Customer Relationship Management system, which of the above rules describes an impossible situation?

Choose the right (one) option and explain your choice:

a) R4 b) R2 c) R6 d) R8

#### Explanation:

- a) R4 - possible situation. Customer is a member; No missed deadline; 15th rental done; Actions: 20% discount - got; Gift T-Shirt - got.
- b) R2 - possible situation. Customer is a member; No missed deadline; 15th rental - No; Actions: 20% discount - got; Gift T-Shirt - No.
- c) R6 - possible situation. Customer is not a member; No missed deadline; 15th rental - No; Actions: 20% discount - No; Gift T-Shirt - No.
- d) R8 - impossible situation. Customer is not a member; Customer missed deadline; 15th rental done; Actions: 20% discount - No (because not a member and missed deadline); Gift T-Shirt - No (15th rentals done, but **not a member**).

#### Answer:

d) R8 - is impossible situation.