

CCC Internet of Things

FOUNDATION

Certified by

Sample Exam

Edition 202108



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Introduction

This is the sample exam CCC Internet of Things (IOTF.EN). The Rules and Regulations for EXIN's examinations apply to this exam.

This exam consists of 40 multiple-choice questions. Each multiple-choice question has a number of possible answers, of which only one is the correct answer.

The maximum number of points that can be obtained for this exam is 40. Each correct answer is worth one point. If you obtain 26 points or more you will pass.

The time allowed for this exam is 60 minutes.

Good luck!





Sample Exam

1 / 40

What does IoE stand for?

- A) Internet of E-Learning
- B) Internet of Edge computing
- C) Internet of Everything
- D) Internet of E-Commerce

2 / 40

What is the full form of the OSI model on which the IoT Protocol stack is based?

- A) Operating System Internal
- B) Open Source Initiative
- C) Online Structured Internet
- D) Open Systems Interconnection

3 / 40

Identify the Online Transaction Processing (OLTP) database.

- A) Cassandra
- B) Ingress
- C) MongoDB
- D) Hbase

4 / 40

What is the technology maturity for "Business Applications" in the markets for the IoT Technology layers?

- A) Low
- B) Moderate
- C) High
- D) Very High

5 / 40

Security is one of the main obstacles of IoT.

What is the other?

- A) Performance
- B) Privacy
- C) Cost
- D) Flexibility





What is an example of WWAN (LPWAN) network protocol?

- A) Wi-Fi
- **B)** 5G
- C) SigFox
- D) NFC

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What is the critical success factor for the "service revenue" monetization model?

- A) Enhanced value delivered over traditional product
- B) Having multiple subscription options at varying price points, including free
- C) Managing customer privacy and staying compliant to regulations
- D) Ensuring the platform is equitable to all stakeholders and not just platform promoters

8 / 40

What technology is used to develop and deploy software robots or bots for automation purposes?

- A) Quantum Computing
- B) Digital Twin
- C) Internet of Robotic Things (IoRT)
- D) Robotic Process Automation

9 / 40

Which statement about sensors is true?

- A) Sensors belong to the category of transducers.
- B) Passive sensors emit their own energy.
- **C)** A loudspeaker is an example of a sensor.
- **D)** Sensors convert electrical input to non-electrical signals.

10 / 40

Insecure Web, Cloud, and Mobile Interfaces have been combined together to form only a single threat.

What is this single group called?

- A) Insecure Network Services
- B) Insecure Default Settings
- C) Insecure Ecosystem Interfaces
- D) Insufficient Privacy Protection





Identify the invalid action involved in a Digital Twin concept.

- A) Collaboration
- B) Connection
- C) Isolation
- D) Replication

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Identify the incorrect stage of an IoT working cycle.

- A) Layers of Embedded Processing Nodes
- B) Remote Cloud-based Processing
- C) Data encryption/decryption
- D) Connectivity Nodes

13 / 40

Identify the incorrect statement about the Machine-to-Machine (M2M) communication.

- A) In an M2M communication, human interaction is optional.
- **B)** M2M Communication is based on wired or wireless channels.
- C) M2M uses sensors to capture events such as temperature and pressure.
- D) Communication between an ATM and the bank computer is an example of M2M.

14 / 40

Which OWASP's top 10 is mitigated by ensuring that there is a proper and trusted anti-rollback mechanism in place?

- A) Lack of Physical Hardening
- B) Insecure Default Settings
- C) Insecure Data Transfer and Storage
- D) Lack of Secure Update Mechanism

15 / 40

In what case is data processed without the need to be transferred or transmitted anywhere?

- A) Edge Computing (on the Device/Sensor itself)
- B) Edge Computing (on the IoT Gateway such as a smartphone)
- **C)** Fog Computing (on the Fog nodes)
- **D)** Cloud Computing (on the cloud itself)





Identify the correct order to follow for MAXIMUM value in the IoT value chain.

- A) Technology, Platforms, Organizations, Things, and People
- B) Things, Technology, Platforms, Organizations, and People
- C) People, Things, Organizations, Platforms, and Technology
- D) Organizations, People, Things, Technology, and Platforms

17 / 40

Identify the invalid characteristic of "things" in IoT.

- A) Unique Identification
- B) High Power Operation
- C) Interoperable
- D) Autonomous

18 / 40

Which statement is true about wired and wireless networks?

- A) Wired networks are more secure.
- B) Wired networks have lower setup cost.
- C) Wireless networks have no RF Interference.
- **D)** Wireless networks have faster connection speeds.

19 / 40

What is the purpose of the "Monitoring" capability of smart and connected products?

- A) To obtain the overall health of a product's condition and environment.
- B) To apply algorithms and analytics to improve productivity and efficiency.
- **C)** To use remote commands or algorithms to control smart, connected products.
- **D)** To self-diagnose a product's own service needs.

20 / 40

By 2025, which sector is potentially expected to have the least impact on account of IoT?

- A) Factories
- B) Offices
- C) Home
- D) Vehicles





Identify the valid Proximity Network category protocol.

- A) Enocean
- B) RFID
- C) Bluetooth Low Energy (BLE)
- D) Z-Wave

22 / 40

Where should historical data be ideally analyzed?

- A) Device/Sensor
- B) Smartphone (Gateway)
- C) Fog nodes (LAN Gateway)
- D) Cloud

23 / 40

Which IoT analytics model is suitable for smart parking applications?

- A) Spatial Analytics
- B) Time Series Analytics
- C) Streaming Analytics
- D) Prescriptive Analytics

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In which communication model, does the application software act as an intermediary between an IoT device and a cloud service?

- A) Device-To-Device
- B) Device-To-Gateway
- C) Device-To-Cloud
- D) Back-End Data Sharing

25 / 40

By 2026, LTE-M and NB-IoT is expected to capture around 60% of the LPWAN connections.

Which two other technologies will capture most of the remaining 40%?

- A) SigFox and LoRa
- B) Symphony and Weigthless
- C) Ingenu and Symphony
- D) LoRa and Weigthless





Which generic factor of a sensor indicates a measure of how consistent it responds to the same input conditions?

- A) Accuracy
- B) Selectivity
- C) Resolution
- D) Repeatability

27 / 40

In which stage of the IIoT maturity model, do connected objects provide reactive form of interaction and communication?

- A) Consolidated
- B) Instrumented
- C) Software-Defined
- **D)** Autonomous

28 / 40

Which IoT Stack layer contains the 6LoWPAN protocol?

- A) Transport Layer
- B) Application Layer
- C) Adaption Layer
- D) Network Interface

29 / 40

Which IoT challenge is unable to be solved by Quantum Computing?

- A) Cost
- B) Latency
- **C)** Interoperability
- D) Security

30 / 40

Identify the valid domain of intelligent systems which pave ways to a smarter world.

- A) Managed
- B) Single point of Failure
- C) Isolated
- D) Agile





Under which threat category does Fires belong?

- A) Natural Disasters
- B) Failure to meet contractual requirements
- C) Environmental Disasters
- D) Malware

32 / 40

Where are transactions stored in Blockchain?

- A) Relational Database
- B) Spreadsheet
- C) Distributed ledger
- D) MongoDB

33 / 40

Which statement about IT processors is true?

- A) Processors consist of microcomputers only.
- B) Microcomputers are specific-purpose devices.
- C) Processors can encrypt/decrypt data.
- **D)** Arduino is an example of a microcomputer.

34 / 40

What is **optional** when combining IoT with Artificial Intelligence to achieve greater impact and efficiency?

- A) Big Investment
- B) Internet
- C) New skills and expertise
- D) Vast amount of data

35 / 40

Under which security level does 'Secure Booting' belong?

- A) Lifecycle Management
- B) Device
- C) Communications
- D) Cloud





Under which category of Baseline IoT Security Recommendations does 'Security by Design' fall?

- A) General Practices
- B) Organizational Practices
- C) Good Practices
- D) Policies

37 / 40

What is an invalid perception element of the next-generation hyperconnected IoT world?

- A) Collect
- B) Capture
- C) Create
- D) Cache

38 / 40

What feature of 5G should be as low as possible?

- A) Capacity
- B) Performance
- C) Latency
- D) Density of towers to cover a given area

39 / 40

Which WPAN network utilizes energy harvesting technology to draw energy from its surroundings?

- A) ANT/ANT+
- B) Bluetooth
- C) Enocean
- D) Zigbee

40 / 40

In the IoT Shared Responsibility Framework, identify the **valid** characteristic for manufacturer behavior.

- A) Check for user reviews, labels and certifications
- B) Ensure the devices can still function without the Internet
- C) Check resources that help to dispose of IoT devices responsibly
- D) Understand how devices collect, use and share data





Answer Key

1 / 40

What does IoE stand for?

- A) Internet of E-Learning
- B) Internet of Edge computing
- C) Internet of Everything
- D) Internet of E-Commerce
- A) Incorrect.
- B) Incorrect.
- C) Correct. IoE stands for the Internet of Everything (people, process, things, and data).
- D) Incorrect.

2 / 40

What is the full form of the OSI model on which the IoT Protocol stack is based?

- A) Operating System Internal
- B) Open Source Initiative
- C) Online Structured Internet
- D) Open Systems Interconnection
- A) Incorrect.
- B) Incorrect.
- C) Incorrect.
- D) Correct. The IoT protocol stack is based on the Open Systems Interconnection (OSI) Model.

3 / 40

Identify the Online Transaction Processing (OLTP) database.

- A) Cassandra
- B) Ingress
- C) MongoDB
- D) Hbase
- A) Incorrect.
- B) Correct. Ingress is an OLTP database while the remaining are NoSQL databases.
- C) Incorrect.
- D) Incorrect.





What is the technology maturity for "Business Applications" in the markets for the IoT Technology layers?

- A) Low
- B) Moderate
- C) High
- D) Very High
- **A)** Correct. Business Applications have a low technology maturity for the markets in the IoT technology layers.
- B) Incorrect.
- C) Incorrect.
- D) Incorrect.

5 / 40

Security is one of the main obstacles of IoT.

What is the other?

- A) Performance
- B) Privacy
- C) Cost
- D) Flexibility
- A) Incorrect.
- B) Correct. The two main obstacles for IoT are security and data privacy.
- C) Incorrect.
- D) Incorrect.

6 / 40

What is an example of WWAN (LPWAN) network protocol?

- A) Wi-Fi
- **B)** 5G
- C) SigFox
- D) NFC
- A) Incorrect.
- B) Incorrect.
- C) Correct. SigFox is an example of WWAN (LPWAN) network protocol.
- D) Incorrect.





What is the critical success factor for the "service revenue" monetization model?

- A) Enhanced value delivered over traditional product
- B) Having multiple subscription options at varying price points, including free
- C) Managing customer privacy and staying compliant to regulations
- D) Ensuring the platform is equitable to all stakeholders and not just platform promoters
- A) Incorrect.
- **B)** Correct. The IoT value chain starts with people or the customer and moves backward to the technologies employed. The correct order is People, Things, Organizations, Platforms and Technology.
- C) Incorrect.
- D) Incorrect.

8 / 40

What technology is used to develop and deploy software robots or bots for automation purposes?

- A) Quantum Computing
- B) Digital Twin
- C) Internet of Robotic Things (IoRT)
- D) Robotic Process Automation
- A) Incorrect.
- B) Incorrect.
- C) Incorrect.
- **D)** Correct. In Financial industries, software robots are used for purchase reconciliation. These robots are developed using Robotic Process Automation.

9 / 40

Which statement about sensors is true?

- A) Sensors belong to the category of transducers.
- B) Passive sensors emit their own energy.
- **C)** A loudspeaker is an example of a sensor.
- **D)** Sensors convert electrical input to non-electrical signals.
- A) Correct. Sensors and actuators belong to a broader category of transducers.
- B) Incorrect.
- C) Incorrect.
- D) Incorrect.





Insecure Web, Cloud, and Mobile Interfaces have been combined together to form only a single threat.

What is this single group called?

- A) Insecure Network Services
- B) Insecure Default Settings
- C) Insecure Ecosystem Interfaces
- D) Insufficient Privacy Protection
- A) Incorrect.
- B) Incorrect.
- **C)** Correct. The insecure Web, Cloud, and Mobile interface threats are together known as Insecure Ecosystem Interfaces.
- D) Incorrect.

11 / 40

Identify the invalid action involved in a Digital Twin concept.

- A) Collaboration
- B) Connection
- C) Isolation
- D) Replication
- A) Incorrect.
- B) Incorrect.
- **C)** Correct. The Digital Twin concept focuses on creating a replicated digital virtual model that connects and collaborates with the physical counterpart. Isolation is the incorrect action here.
- D) Incorrect.

12 / 40

Identify the incorrect stage of an IoT working cycle.

- A) Layers of Embedded Processing Nodes
- B) Remote Cloud-based Processing
- C) Data encryption/decryption
- D) Connectivity Nodes
- A) Incorrect.
- B) Incorrect.
- C) Correct. Data encryption/decryption is an IMPROPER stage of an IoT cycle.
- D) Incorrect.





Identify the incorrect statement about the Machine-to-Machine (M2M) communication.

- A) In an M2M communication, human interaction is optional.
- B) M2M Communication is based on wired or wireless channels.
- C) M2M uses sensors to capture events such as temperature and pressure.
- D) Communication between an ATM and the bank computer is an example of M2M.
- **A)** Correct. M2M communication occurs when devices communicate with one another without any human interface or interaction.
- B) Incorrect.
- C) Incorrect.
- D) Incorrect.

14 / 40

Which OWASP's top 10 is mitigated by ensuring that there is a proper and trusted anti-rollback mechanism in place?

- A) Lack of Physical Hardening
- B) Insecure Default Settings
- C) Insecure Data Transfer and Storage
- D) Lack of Secure Update Mechanism
- A) Incorrect.
- B) Incorrect.
- C) Incorrect.
- **D)** Correct. Lack of a secure update occurs when there is no secure update mechanism or there is no proper and trusted anti-rollback mechanism in place.

15 / 40

In what case is data processed without the need to be transferred or transmitted anywhere?

- A) Edge Computing (on the Device/Sensor itself)
- **B)** Edge Computing (on the IoT Gateway such as a smartphone)
- **C)** Fog Computing (on the Fog nodes)
- **D)** Cloud Computing (on the cloud itself)
- **A)** Correct. In Edge Computing, the data is processed on the device or sensor itself without being transferred anywhere.
- B) Incorrect.
- C) Incorrect.
- D) Incorrect.





Identify the correct order to follow for MAXIMUM value in the IoT value chain.

- A) Technology, Platforms, Organizations, Things, and People
- B) Things, Technology, Platforms, Organizations, and People
- C) People, Things, Organizations, Platforms, and Technology
- D) Organizations, People, Things, Technology, and Platforms
- A) Incorrect.
- B) Incorrect.
- **C)** Correct. The IoT value chain starts with people or the customer and moves backward to the technologies employed. Hence the correct order is People, Things, Organizations, Platforms, and Technology.
- D) Incorrect.

17 / 40

Identify the invalid characteristic of "things" in IoT.

- A) Unique Identification
- B) High Power Operation
- C) Interoperable
- D) Autonomous
- A) Incorrect.
- B) Correct. The ideal characteristic for "things" in IoT should exhibit Low Power Operation.
- C) Incorrect.
- D) Incorrect.

18 / 40

Which statement is true about wired and wireless networks?

- A) Wired networks are more secure.
- B) Wired networks have lower setup cost.
- C) Wireless networks have no RF Interference.
- D) Wireless networks have faster connection speeds.
- **A)** Correct. Wired networks are closed-loop networks and hence are more secure than wireless networks. Other options are conversely true.
- B) Incorrect.
- C) Incorrect.
- D) Incorrect.





What is the purpose of the "Monitoring" capability of smart and connected products?

- A) To obtain the overall health of a product's condition and environment.
- B) To apply algorithms and analytics to improve productivity and efficiency.
- C) To use remote commands or algorithms to control smart, connected products.
- **D)** To self-diagnose a product's own service needs.
- **A)** Correct. Monitoring capability uses sensors and external data sources to create smart, connected products that enable the overall monitoring of a product's condition, operation, and external environment.
- B) Incorrect.
- C) Incorrect.
- D) Incorrect.

20 / 40

By 2025, which sector is potentially expected to have the least impact on account of IoT?

- A) Factories
- B) Offices
- C) Home
- D) Vehicles
- A) Incorrect.
- B) Correct. By 2025, the Offices sector is expected to have the least impact because of IoT.
- C) Incorrect.
- D) Incorrect.

21 / 40

Identify the **valid** Proximity Network category protocol.

- A) Enocean
- B) RFID
- **C)** Bluetooth Low Energy (BLE)
- D) Z-Wave
- A) Incorrect.
- **B)** Correct. RFID falls under the Proximity Network category. The other three options fall under the WPAN category.
- C) Incorrect.
- D) Incorrect.





Where should historical data be ideally analyzed?

- A) Device/Sensor
- B) Smartphone (Gateway)
- C) Fog nodes (LAN Gateway)
- D) Cloud
- A) Incorrect.
- B) Incorrect.
- C) Incorrect.
- **D)** Correct. Historical data is ideally processed, stored, and analyzed in the cloud.

23 / 40

Which IoT analytics model is suitable for smart parking applications?

- A) Spatial Analytics
- B) Time Series Analytics
- C) Streaming Analytics
- D) Prescriptive Analytics
- **A)** Correct. Spatial analytics is used to analyze location based and geographic patterns such as in smart parking applications.
- B) Incorrect.
- C) Incorrect.
- D) Incorrect.

24 / 40

In which communication model, does the application software act as an intermediary between an IoT device and a cloud service?

- A) Device-To-Device
- B) Device-To-Gateway
- C) Device-To-Cloud
- D) Back-End Data Sharing
- A) Incorrect.
- **B)** Correct. The Device-To-Gateway model usually involves application software operating on a local gateway device (like a smartphone) that acts as an intermediary between an IoT device and a cloud service.
- C) Incorrect.
- D) Incorrect.





By 2026, LTE-M and NB-IoT is expected to capture around 60% of the LPWAN connections.

Which two other technologies will capture most of the remaining 40%?

- A) SigFox and LoRa
- B) Symphony and Weigthless
- C) Ingenu and Symphony
- D) LoRa and Weigthless
- **A)** Correct. According to ABI Research, by 2026, NB-IoT and LTE-M will capture over 60% of the 3.6 billion LPWA network connections. SigFox and LoRa will capture the remaining 40% of connections.
- B) Incorrect.
- C) Incorrect.
- D) Incorrect.

26 / 40

Which generic factor of a sensor indicates a measure of how consistent it responds to the same input conditions?

- A) Accuracy
- B) Selectivity
- C) Resolution
- D) Repeatability
- A) Incorrect.
- B) Incorrect.
- C) Incorrect.
- **D)** Correct. A sensor indicating a measure of how consistently it responds to the same input conditions is known as Repeatability.

27 / 40

In which stage of the IIoT maturity model, do connected objects provide reactive form of interaction and communication?

- A) Consolidated
- B) Instrumented
- C) Software-Defined
- D) Autonomous
- A) Incorrect.
- **B)** Correct. Connected objects provide a reactive form of interaction and data communication in the Instrumented stage of the IIoT maturity model.
- C) Incorrect.
- D) Incorrect.





Which IoT Stack layer contains the 6LoWPAN protocol?

- A) Transport Layer
- B) Application Layer
- C) Adaption Laver
- D) Network Interface
- A) Incorrect.
- B) Incorrect.
- C) Correct. 6LoWPAN protocol falls under the Adaptation layer of the IoT Protocol stack.
- D) Incorrect.

29 / 40

Which IoT challenge is unable to be solved by Quantum Computing?

- A) Cost
- B) Latency
- C) Interoperability
- **D)** Security
- **A)** Correct. Latency, Interoperability, and Security are all handled by quantum computing due to faster speeds, wide integration capabilities, and secure cryptography. What it cannot handle is the cost factor.
- B) Incorrect.
- C) Incorrect.
- D) Incorrect.

30 / 40

Identify the valid domain of intelligent systems which pave ways to a smarter world.

- A) Managed
- B) Single point of Failure
- C) Isolated
- D) Agile
- **A)** Correct. Managed, Connected, and Secured are the three domains of intelligent systems that pave a way to a smarter world.
- B) Incorrect.
- C) Incorrect.
- D) Incorrect.





Under which threat category does Fires belong?

- A) Natural Disasters
- B) Failure to meet contractual requirements
- C) Environmental Disasters
- D) Malware
- A) Incorrect.
- B) Incorrect.
- C) Correct. Fires, Explosions, Pollution, Dust, and Corrosion are examples of environmental disasters.
- D) Incorrect.

32 / 40

Where are transactions stored in Blockchain?

- A) Relational Database
- B) Spreadsheet
- C) Distributed ledger
- **D)** MongoDB
- A) Incorrect.
- B) Incorrect.
- **C)** Correct. In Blockchain, transactions are typically stored in distributed ledgers.
- D) Incorrect.

33 / 40

Which statement about IT processors is true?

- A) Processors consist of microcomputers only.
- **B)** Microcomputers are specific-purpose devices.
- C) Processors can encrypt/decrypt data.
- **D)** Arduino is an example of a microcomputer.
- A) Incorrect.
- B) Incorrect.
- C) Correct. The other options are incorrect because:
 - Processors consist of both microcomputers and microcontrollers.
 - Microcomputers are general-purpose devices.
 - Arduino is an example of a microcontroller.
- D) Incorrect.





What is **optional** when combining IoT with Artificial Intelligence to achieve greater impact and efficiency?

- A) Big Investment
- B) Internet
- C) New skills and expertise
- D) Vast amount of data
- A) Incorrect.
- **B)** Correct. Combining Al and IoT is not only expensive (it requires a big investment), but also requires a vast amount of data for analysis and new skills and expertise. The Internet is optional for Edge Computing.
- C) Incorrect.
- D) Incorrect.

35 / 40

Under which security level does 'Secure Booting' belong?

- A) Lifecycle Management
- B) Device
- C) Communications
- D) Cloud
- A) Incorrect.
- B) Correct. Secure booting is a part of the Device security level/process.
- C) Incorrect.
- D) Incorrect.

36 / 40

Under which category of Baseline IoT Security Recommendations does 'Security by Design' fall?

- A) General Practices
- B) Organizational Practices
- C) Good Practices
- D) Policies
- A) Incorrect.
- B) Incorrect.
- C) Incorrect.
- **D)** Correct. 'Security by Design' comes under the category of Policies.





What is an invalid perception element of the next-generation hyperconnected IoT world?

- A) Collect
- B) Capture
- C) Create
- D) Cache
- A) Incorrect.
- **B)** Correct. There are 6 perception elements in the next-generation hyperconnected IoT world which are Collect, Connect, Cache, Compute, Cognize, and Create.
- C) Incorrect.
- D) Incorrect.

38 / 40

What feature of 5G should be as low as possible?

- A) Capacity
- B) Performance
- C) Latency
- D) Density of towers to cover a given area
- A) Incorrect.
- B) Incorrect.
- C) Correct. Latency should be as low as possible so that performance is enhanced. 5G latency < 1 MS WHILE 4G LATENCY IS AROUND 10-50 MS.>
- D) Incorrect.

39 / 40

Which WPAN network utilizes energy harvesting technology to draw energy from its surroundings?

- A) ANT/ANT+
- B) Bluetooth
- C) Enocean
- **D)** Zigbee
- A) Incorrect.
- B) Incorrect.
- **C)** Correct. Enocean is a wireless sensing and energy harvesting platform which draws energy from its surroundings.
- D) Incorrect.





In the IoT Shared Responsibility Framework, identify the **valid** characteristic for manufacturer behavior.

- A) Check for user reviews, labels and certifications
- B) Ensure the devices can still function without the Internet
- C) Check resources that help to dispose of IoT devices responsibly
- D) Understand how devices collect, use and share data
- A) Incorrect.
- **B)** Correct. A manufacturer should ensure that the devices can still function without the Internet connection, and if the company ceases to exist.
- C) Incorrect.
- D) Incorrect.





Evaluation

The table below shows the correct answers to the questions in this sample exam.

Question	Answer	Question	Answer
1	С	21	В
2	D	22	D
3	В	23	Α
4	Α	24	В
5	В	25	Α
6	С	26	D
7	В	27	В
8	D	28	С
9	Α	29	Α
10	С	30	Α
11	С	31	С
12	С	32	С
13	Α	33	С
14	D	34	В
15	Α	35	В
16	С	36	D
17	В	37	В
18	Α	38	С
19	Α	39	С
20	В	40	В



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