DUCKCHAIN

📣 Introducing Duckcoin (DuckChain) - The Ultimate Payment and blockchain Coin!

Duckchain

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Introduction

Welcome to the world of Duckcoin (DuckChain), the leading payment and blockchain token packed with incredible utilities! Embrace the people's cryptocurrency and join the global community of Duckies as we venture into the realm of decentralized finance.

Duckcoin embodies the friendly, curious, and intelligent nature of Duckies, fostering a vibrant DeFi ecosystem. Our utilities include a live Bridge, Blockchain, Duckswap, NFT ticketing platform, lottery, and engaging games, providing endless possibilities for our community.

Join the Duckies worldwide in embracing the people's cryptocurrency, Duckcoin! As a decentralized, open-source peer-to-peer digital currency, Duckcoin embodies the friendly, curious, and intelligent nature of Duckies, creating a vibrant DeFi community

Duck Coin

Is a great blockchain ecosystem building web3 infrastructures and solutions. We are making it easier for everyone to access web3 products, and solve real-life problems with Blockchain technology by integrating institutions, people, groups, and businesses into the blockchain economy.

Duckchain

Duck Chain

Duckchain ecosystem is made of two growing blockchains. A L1 native chain and a layer 2 blockchain on BNB chain

The ultimate fastest, cheapest and flexible blockchain for decentralized apps and cross chain Dapps.

1. **Duckchain DPOS - The native chain for Duckchain :** Duckchain is a revolutionary Delegated Proof of Stake (DPOS) blockchain designed to revolutionize the landscape of decentralized applications (dApps) and smart contracts. The ever-evolving blockchain landscape calls for innovative solutions to address scalability, security, and interoperability challenges. In response to these demands, we present Duckchain, a pioneering Delegated Proof of Stake (DPOS) blockchain that redfines the possibilities of decentralized applications (DApps) and unveiling it's unique features, revolutionary consensus mechanism, and its role in shaping the future, revolutionary consensus mechanism, and it's role in shaping the future of blockchain ecosystems.

Duckchain

Duck Chain

Our revolutionary DPOS Duckchain is designed to provide enhanced scalability and energy efficiency compared to traditional blockchain networks. Embracing the Proof-of-Stake (DPOS) consensus mechanism, Duckchain achieves faster transaction confirmations and significantly reduces energy consumption, contributing to a more sustainable and eco-friendly blockchain ecosystem.

Delegated Proof oF Stake (DPOS) Explained

DPOS is a consensus mechanism designed to combine the benefits of POW and POS. It uses a small group of trusted validators to confirm transactions and secure the network, enhancing scalability while maintaining decentralization.

Problem Statement

The blockchain space faces challenges related to scalability, energy consumption, and consensus mechanisms. Traditional Proof of Work (PoW) systems are energy-intensive, while some Proof of Stake (PoS) systems may compromise decentralization for scalability. Duckchain addresses these issues by introducing cutting-edge DPoS innovations.

Duckchain's DPOS Innovations

Duckchain introduces three groundbreaking innovations to the DPOS model:

- **Adaptive Validator Set:** Our DPOS protocol dynamically adjusts the number of validators based on network conditions, optimizing security and throughput.
- **Randomized Rotation:** Validators are randomly rotated in and out of the consensus process, reducing the risk of collusion and increasing security.
- **Enhanced Incentive Mechanism:** A novel incentive structure rewards validators for consistently accurate transaction validation, fostering network stability.

• **Background and Motivation:** In the wake of growing blockchain adoption, Duckchain emerges as a result of recognizing the limitations of existing solutions. Our goal is to create a blockchain that excels in scalability, security, and interoperability.
• **Demand for DPOS Solutions:** The rationale behind choosing a Delegated Proof of stake consensus mechanism and the advantages it offers.

Benefits of Duckchain's DPOS Implementation

Duckchain's DPoS model offers the following advantages:
• **Scalability:** Adaptive validator sets and rotation reduce bottlenecks, enabling higher throughput and faster transactions.
• **Decentralization:** Randomized rotation prevents centralization tendencies, ensuring a more distributed network.
• Security: Enhanced incentives and dynamic adjustments bolster network security against malicious actors.
Duckchain's DPoS innovations have broad applications, including:
• High-Transaction Volume Environments: DPOS suits applications with frequent transactions, such as payment systems and decentralized apps.

• loT and Supply Chain: Duckchain's scalability and security improvements make it suitable for loT and supply chain solutions.

Consensus Algorithm Overview

Duckchain's DPOS (Delegated Proof of Stake) consensus algorithm redefines how transactions are validated and secured on the network. At its core, DPOS leverages a select group of validators to confirm transactions and reach consensus. The introduction of adaptive validator sets, randomized rotation, and enhanced incentives constitutes our innovative approach to DPOS

Adaptive Validator Sets

One of the key innovations of Duckchain's DPOS is the concept of adaptive validator sets. Traditional DPOS systems often fix the number of validators, leading to potential bottlenecks during periods of high network activity. Duckchain dynamically adjusts the size of the validator set based on factors such as transaction volume and network conditions.

Randomized Rotation

To mitigate the risk of validator collusion and centralization, Duckchain implements randomized rotation of validators. Validators are selected randomly from the pool to participate in each consensus round. This randomization reduces predictability and prevents malicious actors from targeting specific validators.

Randomized Rotation

Randomized rotation enhances the decentralization of the network by ensuring that no group of validators consistently dominates the consensus process. This diversity of participation strengthens network security and prevents potential attacks.

Enhanced Incentive Mechanism

Duckchain's DPoS introduces an innovative incentive mechanism designed to reward validators for their accurate and consistent participation. Validators are incentivized to follow the consensus rules, validate transactions correctly, and contribute to the network's stability.

Enhanced Incentive Mechanism

The enhanced incentive mechanism is crafted to balance the interests of validators and the network. Validators who consistently contribute positively are rewarded with higher participation rewards, fostering a healthy ecosystem where network security and stability are prioritized.

Validator Selection Processes

The process of selecting validators for participation in consensus is a crucial aspect of Duckchain's DPOS. Validators are chosen randomly for each consensus round, ensuring that no single entity or group can consistently dominate the network. The dynamic adjustment of the validator set also takes into account factors such as reputation, performance history, and stake.

Validator Selection Process

Validator rotation and selection algorithms are transparent and open-source, enabling the community to verify the fairness of the process and maintain trust in the network.

Conclusion

Duckchain's technical innovations in DPOS re-imagine how blockchain networks can achieve scalability, security, and decentralization. Adaptive validator sets, randomized rotation, and an enhanced incentive mechanism collectively create a more efficient and equitable consensus mechanism for the Duckchain ecosystem.

Duck Chain

2. BNB Duckchain DRC20 - The layer 2 for BNB chain

Duckchain is the leading layer-2 chain for BNB Chain

Abstract

Duckchain is a layer 2 blockchain solution built on top of the Binance Smart Chain (BSC) network. It is designed to enhance scalability, reduce transaction fees, and increase transaction speed, making it an ideal solution for decentralized applications (dApps) and smart contracts. This whitepaper provides an in-depth overview of Duckchain, including its architecture, consensus mechanism, tokenomics, security measures, and potential use cases.

Duck Chain

Reasons for Binance smart chain Layer 2

The Binance Smart Chain (BSC) is a robust and popular blockchain platform known for its high throughput and low transaction fees. However, even with these advantages, there are several compelling reasons why implementing a layer 2 solution on BSC is beneficial:

1. Enhanced Scalability:
   - Layer 2 solutions can significantly increase the transaction throughput of the BSC network. This is crucial for accommodating the increasing demand for decentralized applications (dApps) and smart contracts.

2. Reduced Transaction Fees:
   - Layer 2 solutions can effectively reduce the cost of transactions by offloading some processing away from the main chain. This makes it more affordable for users to interact with dApps and perform transactions.

Duck Chain

3. Improved Speed and Latency:
   - Layer 2 solutions enable near-instant transaction confirmations. This is especially important for applications where speed is critical, such as high-frequency trading platforms, gaming applications, and real-time financial transactions.

4. Improved User Experience:
   - Lower transaction fees and faster confirmation times create a smoother and more efficient user experience. This can lead to increased adoption of dApps and improved overall user satisfaction.

5. Scalability for Mass Adoption:
   - As blockchain technology becomes more widely adopted, the demand for scalable solutions increases. Layer 2 solutions allow blockchain platforms like BSC to accommodate a larger user base and a wider variety of use cases.

Duck Chain

6. Support for Complex Smart Contracts:
   - Layer 2 solutions can handle the execution of complex smart contracts, allowing for the creation of more sophisticated and feature-rich dApps.

7. Interoperability and Cross-Chain Compatibility:
   - Layer 2 solutions can facilitate interoperability with other blockchains, enabling assets and data to be seamlessly transferred between different platforms. This promotes a more connected and versatile blockchain ecosystem.

8. Reduced Network Congestion:
   - By offloading some of the processing to layer 2, the main BSC network can operate more efficiently, reducing the likelihood of network congestion during times of high demand.

Duck Chain

9. Sustainable Growth:
   - With an effective layer 2 solution, the BSC network can grow sustainably without compromising on performance or security. This ensures that it remains a competitive option for developers and users alike.

10. Flexibility and Innovation:
   - Layer 2 solutions open up opportunities for experimentation and innovation. Developers can explore new features, functionalities, and use cases without being constrained by the limitations of the main chain.

In summary, implementing Duckchain layer2 solution on the Binance Smart Chain is a strategic move to enhance its scalability, improve user experience, and ensure its competitiveness in the evolving blockchain landscape. This addition enables BSC to accommodate a wider range of applications and users, ultimately driving broader adoption and innovation within the ecosystem.

Objectives

The primary objectives of Duckchain are:

- **Scalability:** Enable high throughput and low latency for transactions.
- **Cost Efficiency:** Reduce transaction fees to make decentralized applications more accessible.
- **Security:** Implement robust security measures to safeguard the network and smart contracts.

2. Architecture

2.1 Overview

Duckchain comprises several key components, each contributing to its overall functionality and performance.

2.2 Components

2.2.1 Smart Contracts Layer

This layer is responsible for executing and storing smart contracts, enabling complex decentralized applications.

Objectives

2.2.2 State Channels

State channels allow for off-chain transactions between participants, reducing the burden on the main blockchain.

2.2.3 Relayer Network

Relayers facilitate the communication between state channels and the main blockchain, ensuring secure and efficient transactions.

2.2.4 Governance Layer

Duckchain employs a governance mechanism allowing token holders to participate in decision-making processes.

2.2.5 Cross-Chain Compatibility

Duckchain is designed to be compatible with other blockchains, enabling seamless interoperability.

3. Consensus Mechanism

3.1 Duckchain Consensus

Duckchain utilizes a modified version of the Binance Smart Chain's Proof of Stake (PoS) consensus, enhancing security and efficiency.

Objectives

3.2 Binance Smart Chain Compatibility

Duckchain maintains compatibility with the Binance Smart Chain, allowing for easy integration with existing BSC projects and wallets.

4. Scalability and Performance

4.1 Transaction Throughput

Duckchain significantly improves transaction throughput, allowing for a higher number of transactions per second (TPS) compared to the base BSC network.

4.2 Reduced Latency

With the implementation of state channels and efficient relay networks, Duckchain achieves reduced transaction confirmation times and lower latency.

4.3 Resource Utilization

Duckchain optimizes resource utilization, ensuring that nodes can efficiently process transactions while maintaining network security.

5. Security Measures

Objectives

5.1 Byzantine Fault Tolerance

Duckchain employs Byzantine Fault Tolerance (BFT) algorithms to ensure the network's security and resistance to malicious actors.

5.2 Smart Contract Security

Smart contracts on Duckchain undergo thorough security audits and testing to minimize vulnerabilities and protect user assets.

5.3 Relayer Authorization

Relayers are required to pass strict authorization protocols to participate in the network, enhancing the overall security of the system.

6. Tokenomics

6.1 DUCK Token

The DUCK coin is the native utility token of Duckchain, used for governance, transaction fees, and incentivizing network participants.

6.2 Token Distribution

The initial token distribution is designed to promote decentralization, with allocations for developers, early supporters, and the community.

Objectives

7.5 Identity and Authentication

Duckchain can be used for secure identity verification and authentication, with low-cost transactions making it accessible for various identity-related applications.

8. Roadmap

8.1 Development Phases

Duckchain's development roadmap includes phases for testing, optimization, and feature expansion, ensuring the network's growth and stability.

8.2 Milestones

Key milestones include the launch of mainnet, integration with strategic partners, and continuous improvements in scalability and security.

9. Governance and Upgrades

9.1 Governance Model

Duckchain's governance model ensures that decisions are made collectively by token holders, allowing for the evolution of the network according to the community's needs.

Objectives

9.2 Upgrade Mechanism

The upgrade process is designed to be transparent and secure, with a thorough review and testing period before any changes are implemented.

10. Partnerships and Ecosystem

10.1 Developer Ecosystem

Duckchain actively fosters a developer-friendly environment, providing resources, documentation, and support for building on the platform.

10.2 Strategic Partnerships

Collaborations with key industry players and projects enhance Duckchain's reach and potential for adoption in various sectors.

10.3 Community Engagement

A vibrant and engaged community is crucial for the success of Duckchain. Community-driven initiatives and feedback channels are established to ensure active participation.

Objectives

11. Conclusion

Duckchain presents a promising solution for the scalability challenges faced by blockchain networks. With its layer 2 architecture on the Binance Smart Chain, it aims to revolutionize the decentralized application ecosystem by providing high throughput, low latency, and cost-efficient transactions. The team behind Duckchain is committed to ongoing development, community engagement, and partnerships to realize the full potential of this innovative blockchain solution.

Unlocking the Future of Finance, Empowering Every Individual

The importance of Duckchain lies in its unique approach to transforming the financial landscape and addressing key challenges faced by traditional financial systems. Here are some aspects that highlight its significance:

1. **Financial Inclusion:** Duckchain aims to bridge the gap between the unbanked and the financial system by providing accessible and user-friendly decentralized financial services. This inclusion can empower individuals who were previously excluded from mainstream financial opportunities.

2. **Innovation and Efficiency:** By combining Proof-of-Stake (POS) technology with a blend of centralized and decentralized finance, Duckchain creates an innovative and efficient ecosystem. This approach offers faster transactions, reduced energy consumption, and improved scalability compared to traditional proof-of-work blockchain systems.

Unlocking the Future of Finance, Empowering Every Individual

3. Security and Transparency: Duckchain places a strong emphasis on security and transparency. Through its community-driven approach and decentralized governance model, participants can actively contribute to decision-making, ensuring a transparent and accountable platform.

4. Environmental Sustainability: The use of POS consensus and energy-efficient practices in Duckchain's operations aligns with sustainable development goals. Unlike energy-intensive proof-of-work blockchains, Duckchain minimizes its environmental impact, making it a greener alternative.

5. **Community Empowerment:** Duckchain empowers its community members by involving them in governance and providing access to a range of financial services. This engagement fosters a sense of ownership and responsibility, creating a stronger and more committed user base.

Unlocking the Future of Finance, Empowering Every Individual

6. **Innovation in DeFi:** The integration of decentralized and centralized finance in Duckchain offers new possibilities for DeFi solutions. Users can enjoy the benefits of both worlds, including the accessibility of DeFi services and the liquidity of a central exchange.

7. **Financial Sovereignty:** By enabling individuals to control their assets and participate in decision-making, Duckchain empowers users with financial sovereignty. This shift away from traditional centralized institutions allows users to take charge of their financial future.

8. **Global Impact:** Duckchain's mission to revolutionize finance transcends geographical boundaries. Its decentralized nature enables users from around the world to access its services, potentially fostering economic growth and financial stability on a global scale.

Unlocking Endless Possibilities

Duckchain's versatile ecosystem and innovative technologies have far-reaching potential across various industries and use cases. Here are some of the real-world applications where Duckchain can make a significant impact:

1. **Decentralized Finance (DeFi) Solutions:** Duckchain's central exchange, layer-2 EVM Duckchain, and community-driven governance platform offer a comprehensive suite of DeFi solutions. These can facilitate fast and secure token swaps, liquidity provisioning, lending, borrowing, and yield farming.
2. **Supply Chain Management:** With its transparent and traceable ledger, Duckchain can streamline supply chain management by enhancing product provenance, tracking inventory, and ensuring authenticity, thereby reducing fraud and improving efficiency.
3. **Gaming and NFT Marketplaces:** Duckchain's POS blockchain allows for faster and cost-effective execution of smart contracts, making it an ideal platform for gaming applications and Non-Fungible Token (NFT) marketplaces.

Unlocking Endless Possibilities

4. **Digital Identity Management:** Duckchain's secure and decentralized infrastructure can support digital identity management systems, providing individuals with control over their personal data and enhancing authentication and verification processes.
5. **Cross-Border Payments:** By leveraging Duckchain's speed and efficiency, It can facilitate cross-border payments, enabling faster and more cost-effective international transactions.
6. **Tokenized Assets and Real Estate:** Duckchain's blockchain capabilities allow for the tokenization of real-world assets, such as real estate properties and valuable collectibles, unlocking liquidity and fractional ownership opportunities.
7. **Governance and Voting Systems:** The community-driven governance platform in Duckchain can be adapted for various organizations, enabling decentralized decision-making, voting, and consensus-building processes.
8. **Decentralized Social Networks:** Duckchain's focus on privacy and data protection can support the development of decentralized social networks, where users have control over their data and interactions.

Unlocking Endless Possibilities

9. Green Finance and Sustainability Projects: Duckchain can be utilized to support green finance initiatives, encouraging sustainable projects and enabling environmentally responsible investments.
10. Education and Certification Systems: The transparent and immutable nature of Duckchain's blockchain can be harnessed for educational credential verification, certification issuance, and achievements recognition.

Duck Swap

Duckswap, a decentralized exchange (DEX) built on the Duckchain blockchain, seeks to transform token trading and liquidity provisioning. Dive into the ultimate decentralized exchange (DEX) with staking, farming, and a cutting-edge Crosschain bridge. Say goodbye to high fees and security concerns—Duckswap leverages Layerzero and Axelar infrastructure for seamless and safe crosschain movement of assets.

- **Introduction**
  - The evolution of decentralized exchanges.
  - Introducing Duckswap: A next-generation DEX prioritizing user experience.
- **Technical Architecture**
  - In-depth overview of Duckswap's architectural framework.
  - Integration with the Duckchain blockchain infrastructure.
  - Design of a decentralized order book and innovative liquidity pools.

Duck Swap

- Automated Market Making (AMM)
  - Unpacking Duckswap's AMM mechanism.
  - Providing liquidity and reaping rewards.
  - Ensuring minimal slippage and price stability.
- User Interface and Experience
  - Development of an intuitive, user-friendly trading interface.
  - One-click token swapping and liquidity provision.
  - Integration with popular wallets like MetaMask and WalletConnect.
- Security Measures
  - Assurance of secure transactions and asset protection.
  - Comprehensive audits and rigorous code reviews.
  - Shielding against potential front-running attacks.
- Liquidity Mining and Incentives
  - Encouraging liquidity providers through yield farming.
  - Earning DUCK tokens and transaction fees

Duck Swap

- **Interoperability and Cross-Chain Trading**
  - Integration of Duckbridge for seamless cross-chain trading.
  - Expanding the trading horizon by connecting with other blockchain ecosystems.
- **Decentralized Governance and Decisions**
  - Introduction of decentralized governance for Duckswap.
  - Active participation in voting for platform upgrades and alterations.
- **Token Utility and Ecosystem Integration**
  - Role and advantages of DUCKSWAP token.
  - Distribution model and tokenomics.
- **Collaborations and Integrations**
  - Building synergies with DApps, projects, and other DEXs.
  - Providing easy access to diverse liquidity sources.

Duck Swap

- Security Measures
  - Ensuring secure transactions and safeguarding assets.
  - Stringent audits, robust code reviews, and defenses against attacks.
- Roadmap and Development Timeline
  - Crucial milestones and development phases.
  - Preparing for beta release and full deployment.

Conclusion: Duckswap endeavors to redefine DEX experiences by melding user-friendliness with security and efficient trading mechanisms. By integrating seamlessly with Duckchain, Duckswap emerges as a trusted platform for traders and liquidity providers seeking a seamless, secure, and rewarding trading arena.
Please note that these whitepapers serve as templates and should be customized according to the specific features, technical details, and branding of Duckchain and Duckswap.

Duck Swap

Payments: Simplify your transactions with Duckcoin's payment system, allowing you to send and receive funds effortlessly.

Wallets and Games: Explore a range of secure wallets and engaging games designed to enhance your Duckcoin experience. 💥The NFT ticketing platform brings huge use case for NFTs holders around the 🌎 world.

Duck Bridge

The Duckchain Bridge is a technological solution designed to facilitate interoperability and communication between different blockchain networks. It plays a crucial role in allowing data and assets to move seamlessly between Duckchain and another blockchain, often referred to as the "external chain." Here's how the Duckchain Bridge can help the new chain:

1. Cross-Chain Asset Transfers:
The Duckchain Bridge enables the transfer of assets (tokens, cryptocurrencies, or other digital assets) between Duckchain and the external chain. This can be extremely beneficial for users who want to utilize assets from one chain on the other. For instance, users can move tokens from Duckchain to the external chain and vice versa.

Duck Bridge

2. Access to External Chain's Features:
By integrating the Duckchain Bridge with an external chain, Duckchain can tap into the unique features and capabilities of that chain. This allows Duckchain users to leverage functionalities that may not be available on Duckchain itself.

3. Enhanced Liquidity:
Interoperability through the Duckchain Bridge can contribute to enhanced liquidity for assets. It allows users to access a larger pool of assets across multiple chains, which can improve trading opportunities and market efficiency.

4. Decentralized Finance (DeFi) Integration:
Many DeFi applications and protocols operate on different blockchain networks. The Duckchain Bridge can enable Duckchain to connect with various DeFi ecosystems on external chains, providing users with more opportunities to participate in decentralized financial activities.

Duck Bridge

5. Expanded Use Cases:
With access to external chains' features and assets, Duckchain can expand its range of use cases. This could include cross-chain gaming, NFT trading, decentralized exchanges, and more, all of which can benefit from the combination of Duckchain's features and those of external chains.

6. Diversification of Risk:
By using the Duckchain Bridge, users can diversify their risk exposure by holding assets on multiple chains. If one chain experiences technical issues or vulnerabilities, assets on other chains remain unaffected.

7. Scalability and Efficiency:
The Duckchain Bridge can be utilized to offload certain processes or transactions onto an external chain, helping to improve scalability and reduce congestion on Duckchain. This can result in faster and more cost-effective transactions

Duck Bridge

In summary, the Duckchain Bridge acts as a conduit for data and assets to flow between Duckchain and external blockchain networks. It opens up new possibilities, expands use cases, and enhances the overall value proposition of Duckchain by leveraging the strengths of multiple chains. and lots more products within the ecosystem

Tokenomics

Duckchain's token, [$Duckcoin], is an integral part of the ecosystem. With a total supply of [10Billion], the token distribution will be as follows:

Early Investors/ Private Whale sale	0	300,000,000	3.00%
IDO	0	2,000,000,000	20.00%
Liquidity	0	1,000,000,000	10.00%
Marketing	0	1,000,000,000	10.00%
Community	0	1,000,000,000	10.00%
Team	0	1,000,000,000	10.00%
Development	0	1,000,000,000	10.00%
Reserved	0	2,000,000,000	20.00%
Airdrop	0	700,000,000	7.00%

Tokenomics

The DUCKCOIN is the native token of Duckchain. It serves as a governance token with a maximum supply and represents platform governance functions. This documentation provides an overview of the Duck token and its various use cases and functionalities within the Duckcoin ecosystem

- **Token Details**
  Token Name: Duckcoin
  Token Type: Utility and Governance Token
  Token Supply: Fixed supply

- **Token Emission**

The emission of DUCK tokens is directly tied to the Total Value Locked (TVL) growth within the Duckcoin platform.

Tokenomics

- Use Case
  Transaction fees, governance, payment , staking etc

- Allocations
  Team 10%
  IDO 20%
  Private sale 3%
  Liquidity 10%
  Marketing 10%
  Development 10%
  Reserve 20%
  Community 10%
  Aidrop 7%
  Tax : 15% buy and sale
  5% to holders
  5% to liquidity
  5% to marketing and burning

Duckchain

Tokenomics

- TEAM

The Duckcoin team brings together members who are both prominent and experienced in the field of software development as well as blockchain technology. We all share the burning passion for decentralization and honesty, and dedicate our lives to creating and providing community owned and determined products and services that can bring the best experiences to the users. Through our mutual love for people, we are connected as a team and have developed a habit of doing other wonderful things together. We have created ourselves an environment where challenges are sought after and welcomed. Every day should bring all members a new challenge to face and conquer. We do not accept the first solution so easily