IT Fundamentals

Security Basics

- Malware
- Antivirus
- Firewall
- VPN

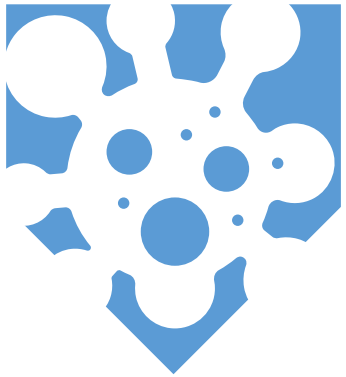
Malware

- Kötü amaçlı yazılımların geneline malware (**mal**icious soft**ware**) denir.

Malware Türleri

Ransomware

Şifreleme
Fidye



Virus

Tahrip,
yavaşlık,
engelleme,
Tetiklenmeden
çalışmazlar

Worm

Virüs gibi ama
tetiklenmeye
gerek yok

Trojan

Kendilerini
zararsız gibi
gösterirler

Bot

Cihazları
zombi haline
getirirler

Antivirus

- Malware ler ile mücadele eden, onların bulaşmasını engelleyen, bulaşmış ise tespit edip temizleyen yazılımlardır.

Malwares

Malware bulaşmaması için neler yapılabilir

?

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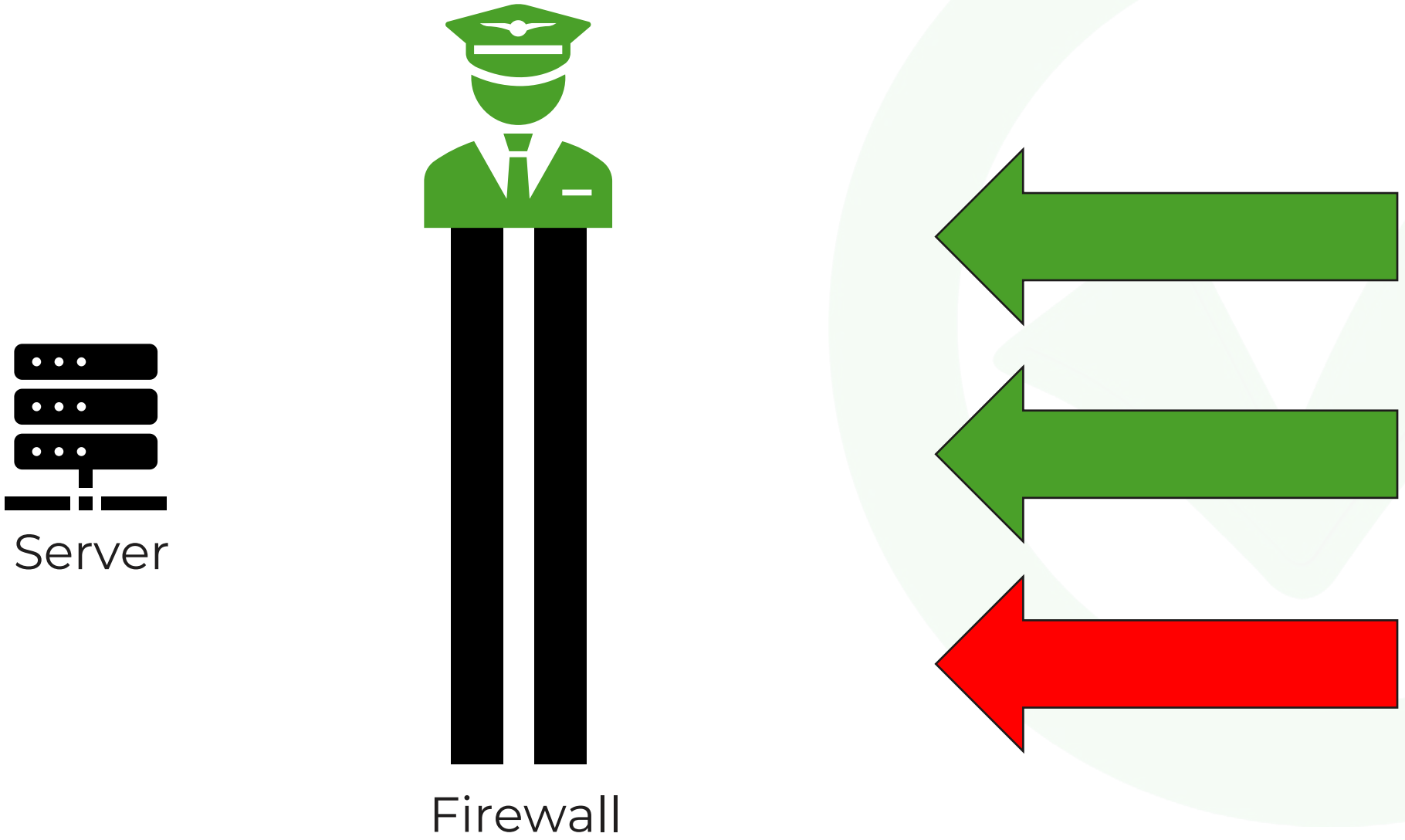
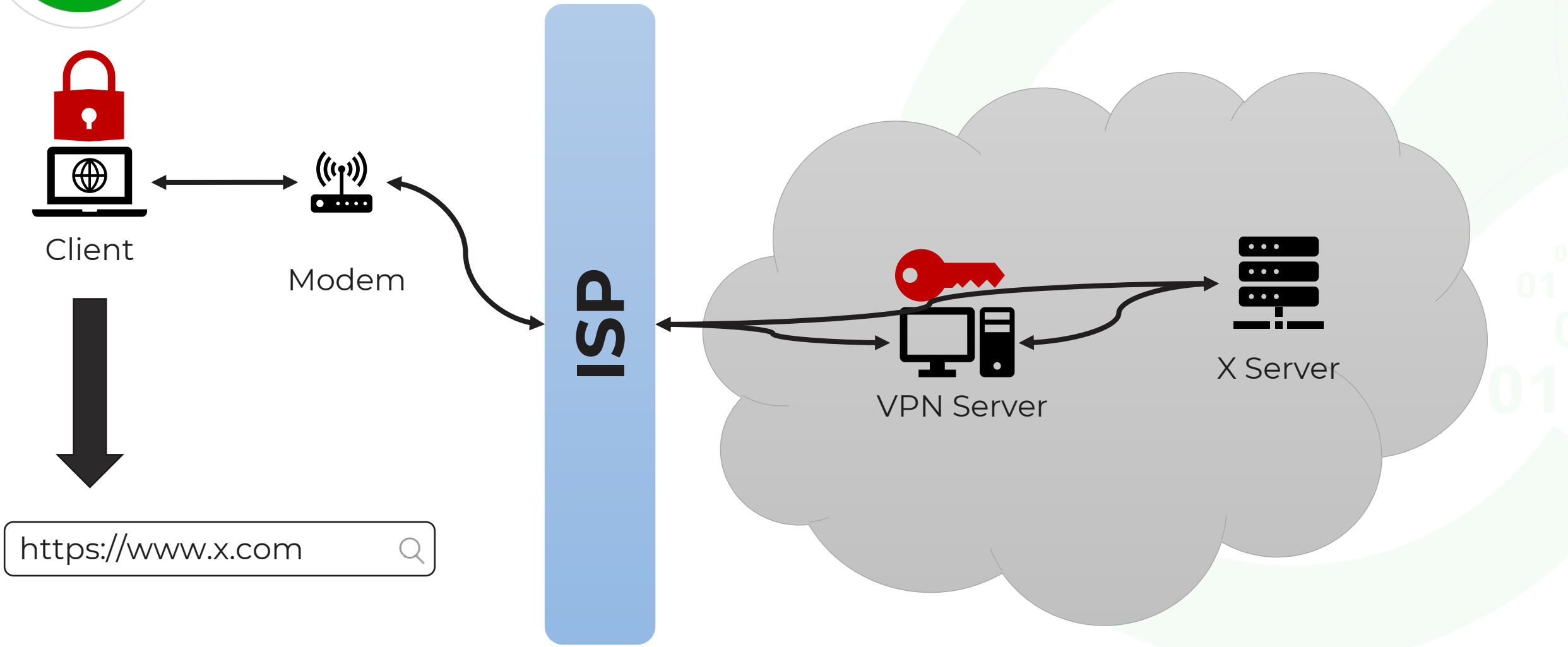
Malware bulaşmaması için

- Antivirus programı kullanın
- Cracked yazılım kullanmayın
- Yalnızca güvenilir kaynaklardan veya güvenilir yayıncılardan yazılım yükleyin
- Kullanıcı incelemelerini okuyun
- Uygulamaların popülerliğini kontrol edin
- Şüpheli epostaları açmayın veya şüpheli linklere tıklamayın
- İşletim sisteminizi ve uygulamalarınızı güncel tutun
- Ücretsiz WiFi ağlarına bağlıyken dikkatli olun
- USB kullanırken dikkatli olun

Firewall



VPN (Virtual Private Network)



VPN

Kahoot

Kahoot!

IT Fundamentals

Programming Basics

- Problem çözme
- Computational Thinking
  - Decomposition
  - Pattern Recognation
  - Abstraction
  - Algorithm
  - Flowchart
  - Pseudo Code

Learn programming with games

HOMEWORK

Blockly Games

CODE COMBAT

SCRATCH

CODE

Problem çözme

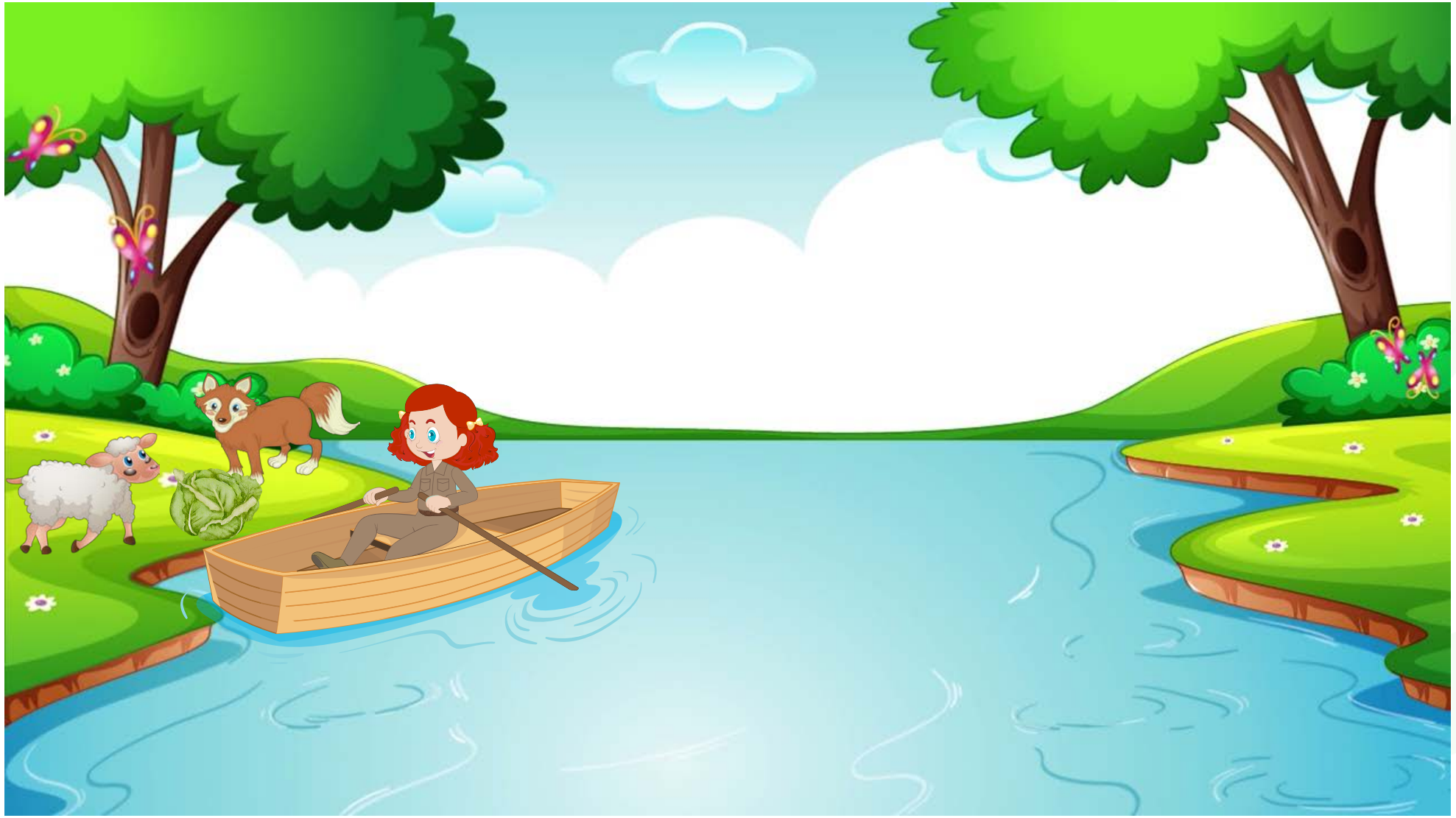
Her yazılım gerçekte bir problemin çözümüdür.

Problem Çözme

Algoritma için bir örnek

https://www.youtube.com/watch?v=xoqQKFtfzvM

Problem çözme



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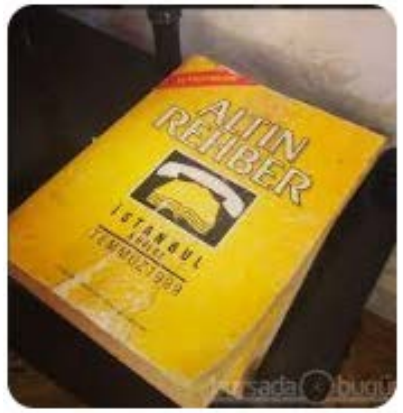
Problem çözme

PRACTISE

Kitap halinde basılmış, alfabetik bir telefon rehberinde **John Doe** isimli kişinin telefon numarasını <u>sistematik bir şekilde</u> nasıl bulursunuz?



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Problem çözme

PRACTISE

1

İlk sayfadan son sayfaya doğru tüm kayıtların tek tek kontrolü

Linear search

2

Kitabı belli sayfalardan oluşan bloklara ayırma. Hedefin bulunduğu bloğu tespit edip orada arama yapma.

Jump search

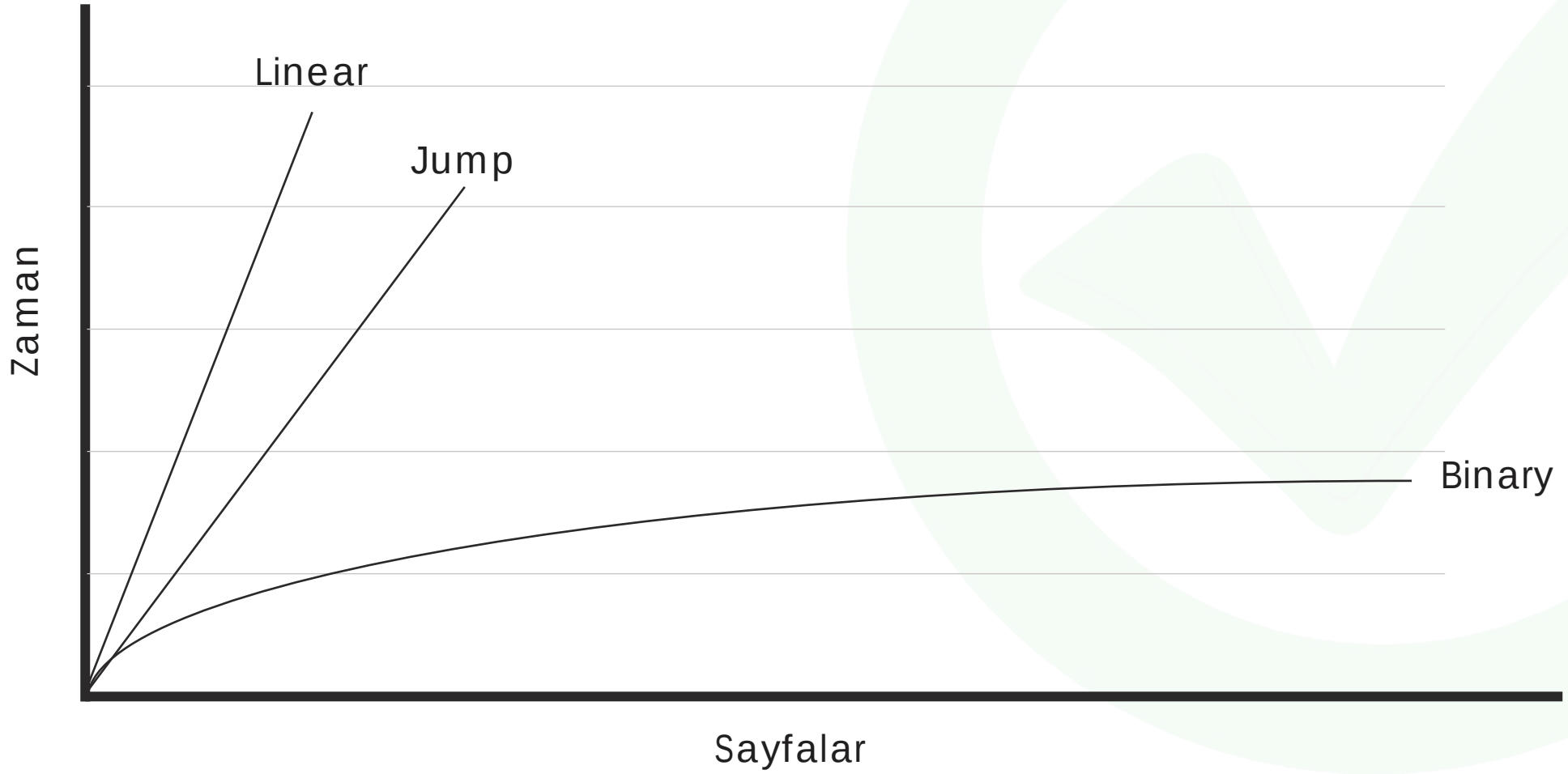
3

Kitabı sürekli ikiye bölüp, hedefin bulunduğu tarafı alarak ikiye bölme işlemine devam etmek

Binary search

Problem çözme

PRACTISE

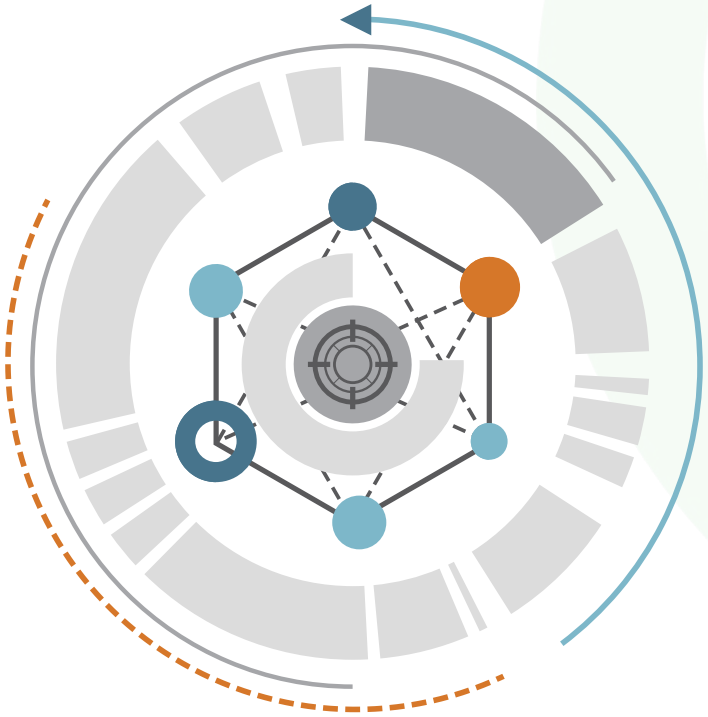


Computational Thinking

Computational Thinking

Decomposition | Pattern Recognation | Abstraction | Algorithm

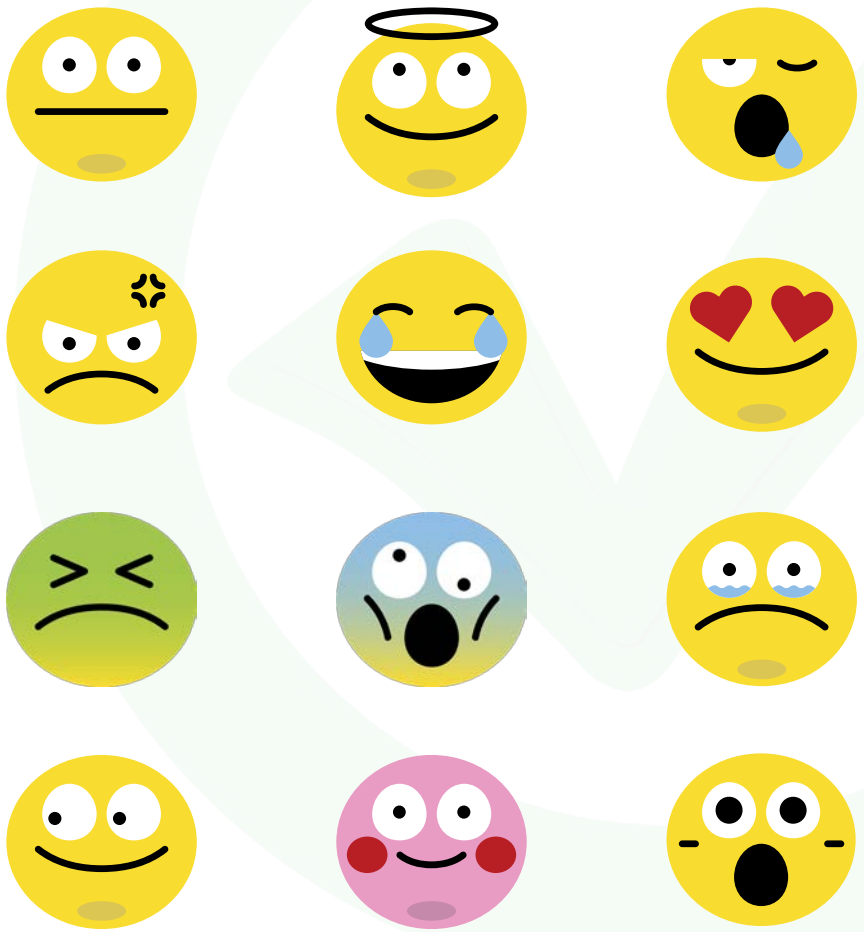
Böl, Parçala, Çöz



Decomposition

PRACTISE

- Yüz, göz ve ağız tipleri belirlenebilen emoji yapılmak isteniyor. Bu proje için decomposition yapınız.

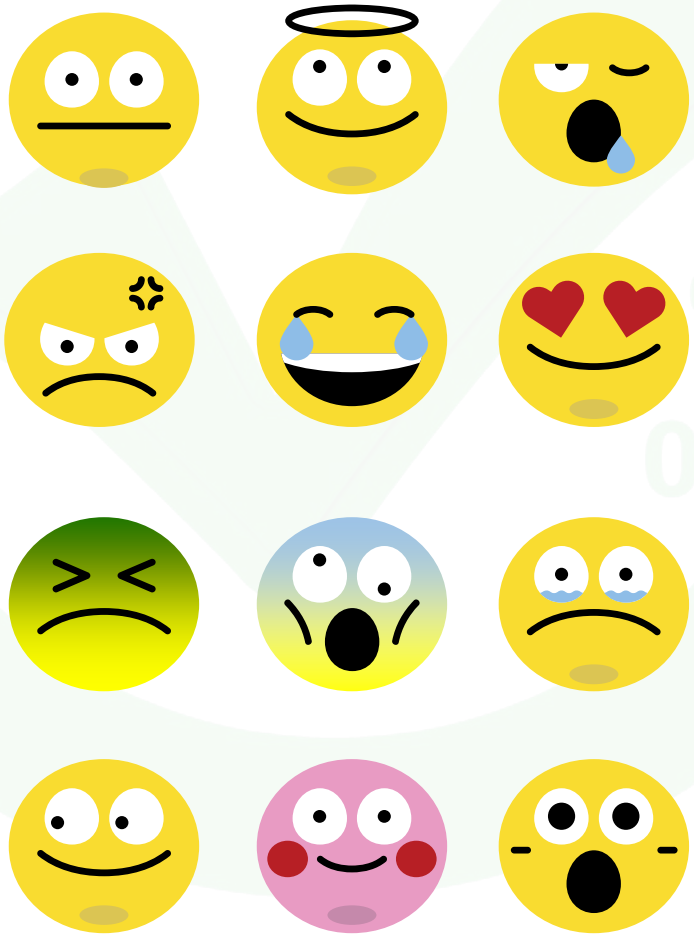


Decomposition

AĞIZLAR

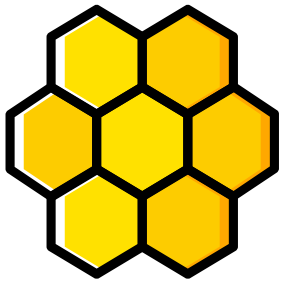
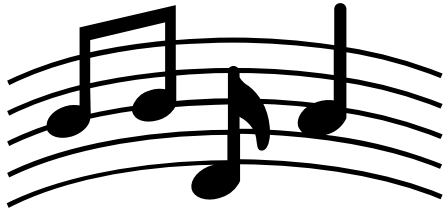
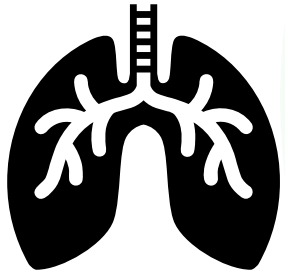
GÖZLER

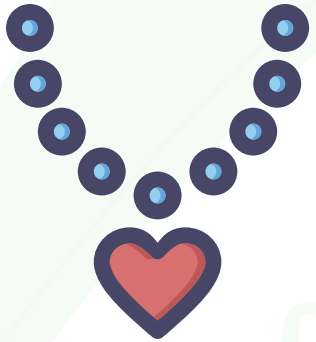
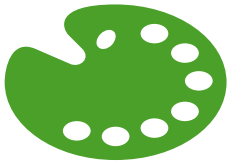
YÜZLER



Computational Thinking

Decomposition | **Pattern Recognation** | Abstraction | Algorithm

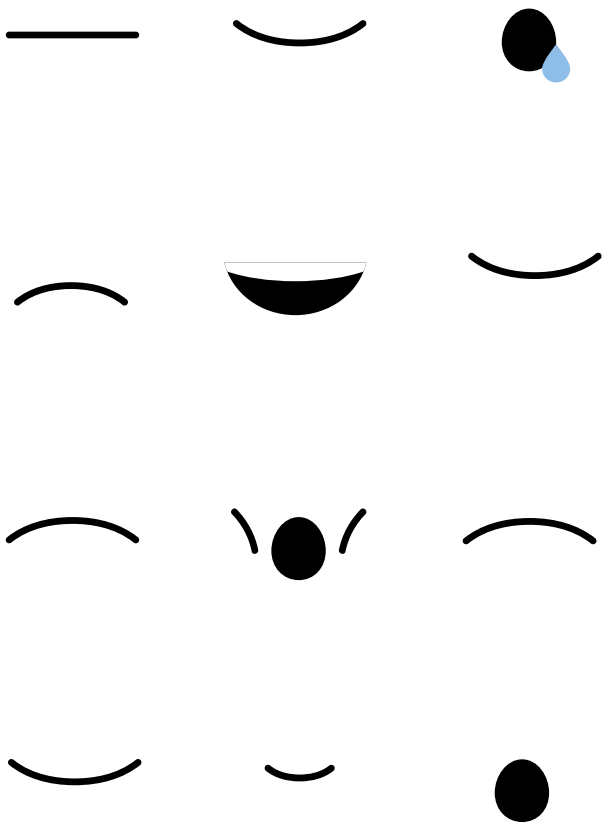




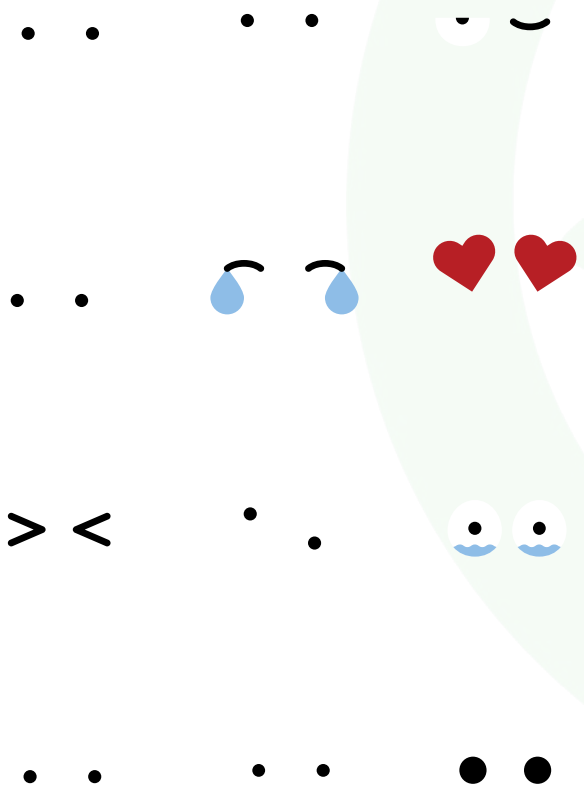
Pattern Recognation

PRACTISE

AĞIZLAR



GÖZLER



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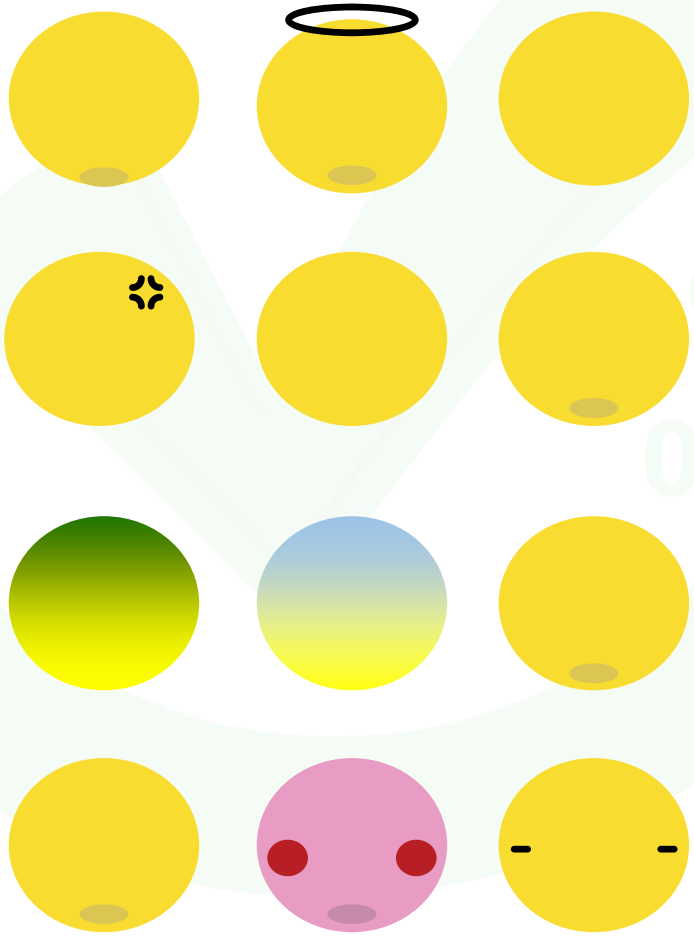
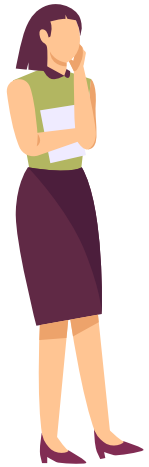
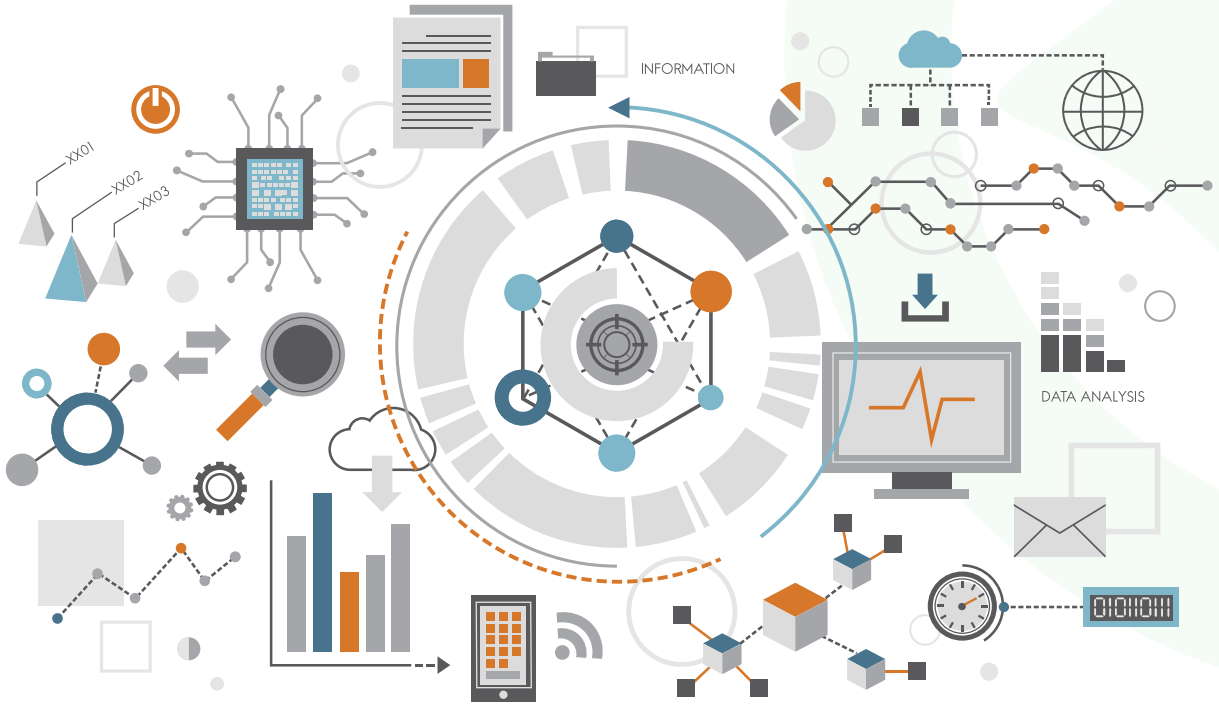


Computational Thinking

Decomposition | Pattern Recognation | **Abstraction** | Algorithm

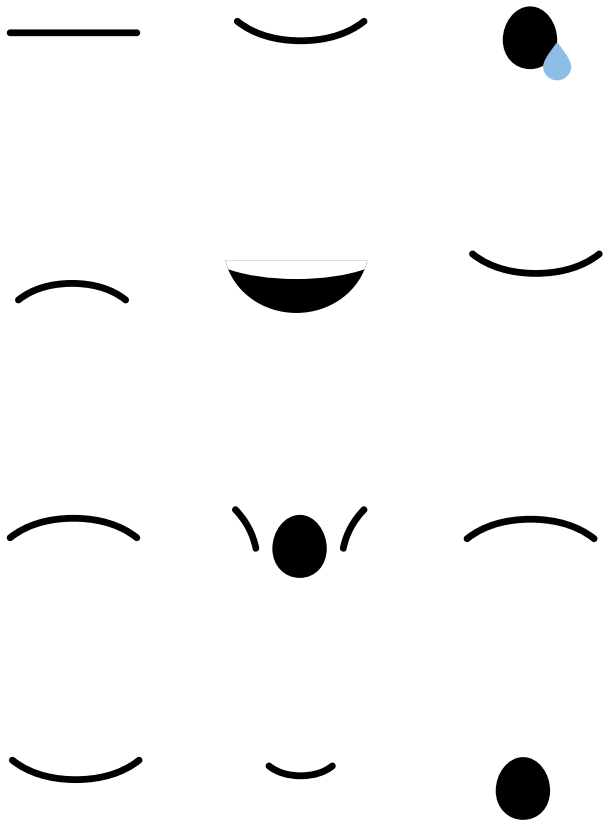
«Look at the big picture»

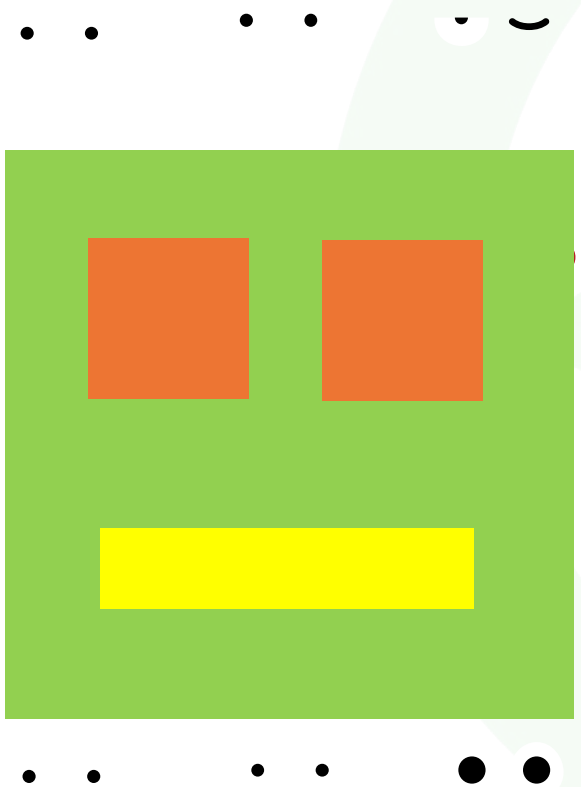


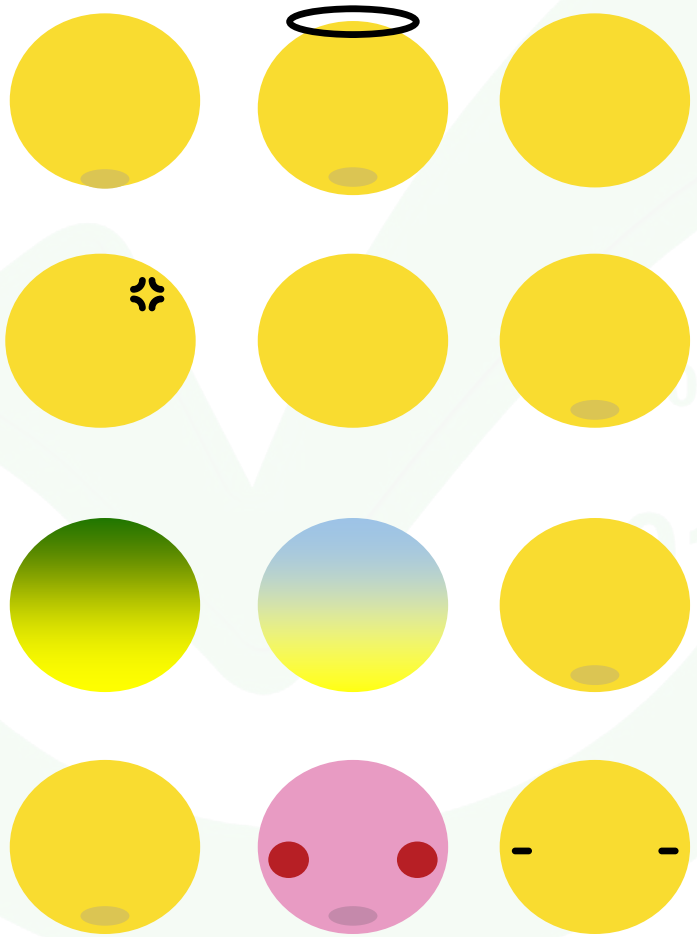


Abstraction

PRACTISE







CT Videos

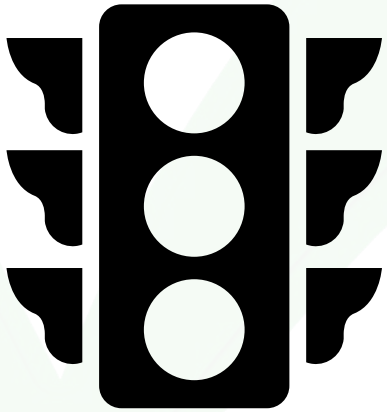
- https://www.youtube.com/watch?v=mUXo-S7gzds

- https://www.youtube.com/watch?v=_TWsmF8l418
- https://www.youtube.com/watch?v=91utNt5qshE

Computational Thinking

PRACTISE

Kırmızı ışıkta geçen araçları tespit edip plakasına ceza kaydı oluşturacak bir sistem yapılacaktır. Bu problemi computational thinking kullanarak çözünüz.



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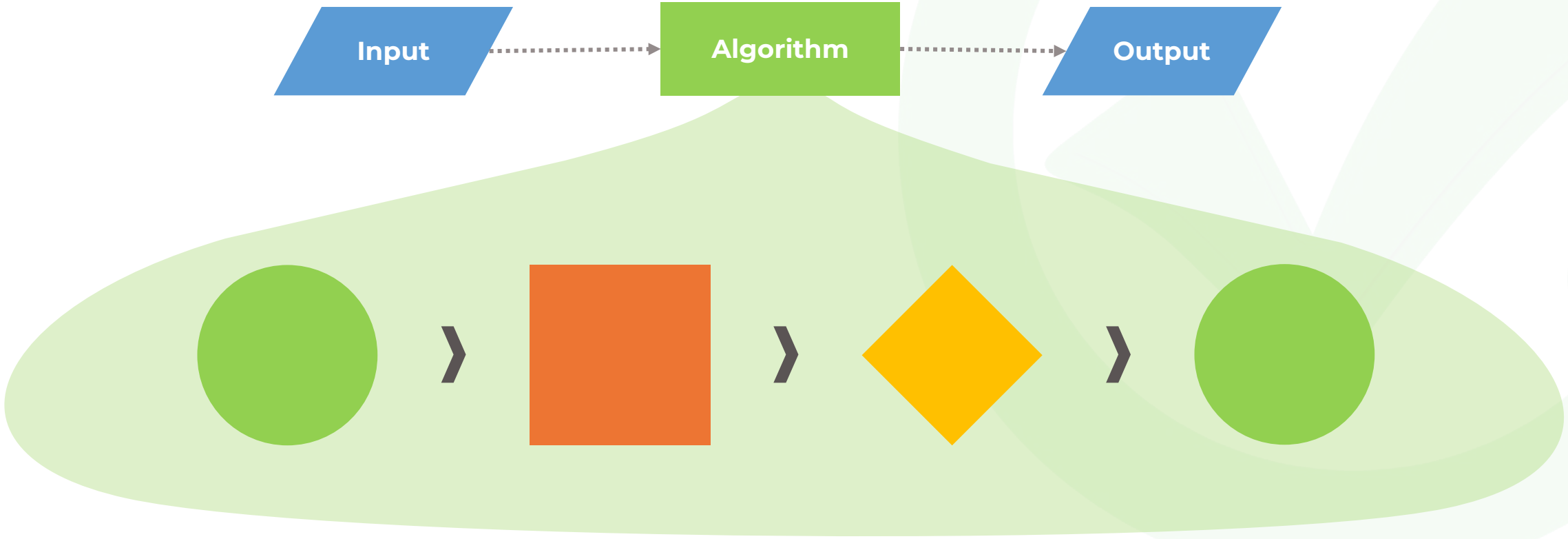
Computational Thinking

Decomposition → Pattern Recognation → Abstraction → **Algorithm**