Piksel Kod Atölyesi

Ad: _____ Tarih: _____

0 beyaz, 1 koyu karedir. Her satırı soldan sağa, satırları üstten alta oku. Her kare bir bit; baştaki sıfırlar da konum taşır.

1. Koddan resme - Merdiven (4 x 4)

Verilen kod

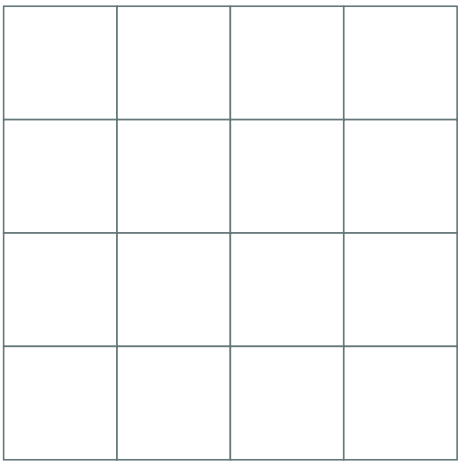
0 0 0 1

0 0 1 1

0 1 1 1

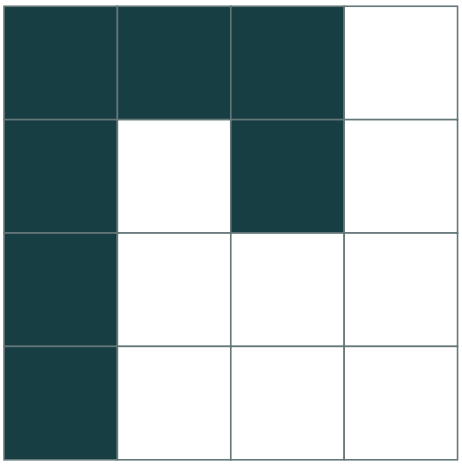
1 1 1 1

Koda göre kareleri boya



2. Resimden koda - Bayrak (4 x 4)

Hedef resim



Her satırın kodunu yaz

_ _ _ _

_ _ _ _

_ _ _ _

_ _ _ _

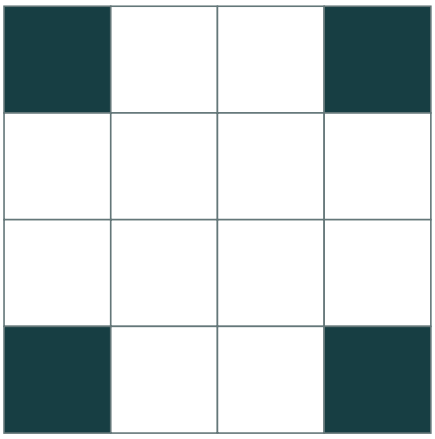
Piksel Kod Atölyesi

Ad: _____ Tarih: _____

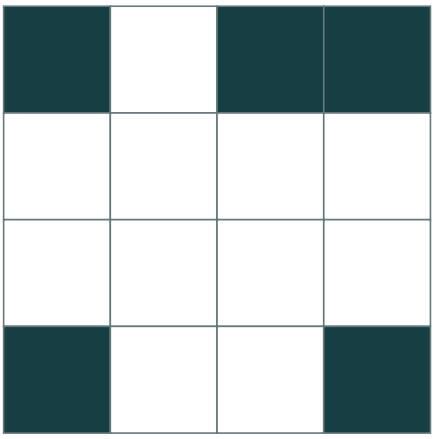
0 beyaz, 1 koyu karedir. Her satırı soldan sağa, satırları üstten alta oku. Her kare bir bit; baştaki sıfırlar da konum taşır.

3. Tek bit onarımı - Dört köşe (4 x 4)

Hedef resim



Gelen resim: hatalı kareyi işaretle



Düzeltilen bit: ____ . satır, ____ . sütun. Yeni değer: ____

4. Koddan resme - Çatı (6 x 6)

Verilen kod

0 0 1 1 0 0

0 1 1 1 1 0

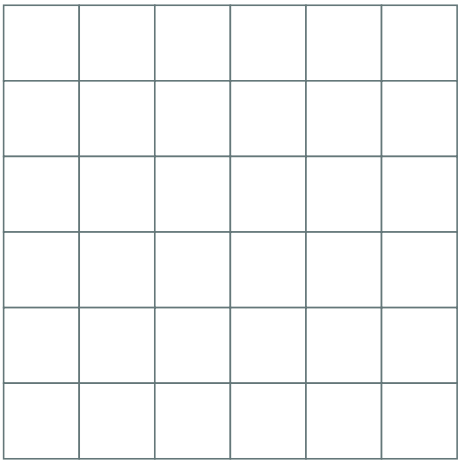
1 1 0 0 1 1

0 0 0 0 0 0

0 0 0 0 0 0

0 0 0 0 0 0

Koda göre kareleri boya



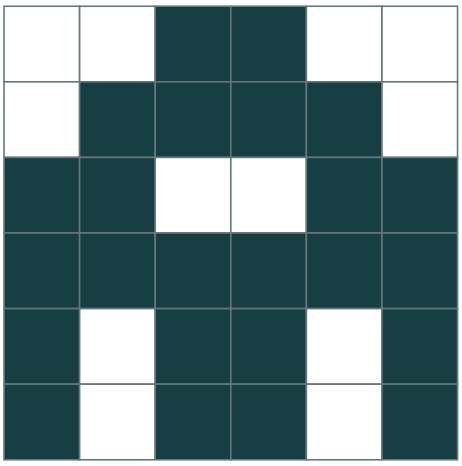
Piksel Kod Atölyesi

Ad: _____ Tarih: _____

0 beyaz, 1 koyu karedir. Her satırı soldan sağa, satırları üstten alta oku. Her kare bir bit; baştaki sıfırlar da konum taşır.

5. Resimden koda - Ev (6 x 6)

Hedef resim



Her satırın kodunu yaz

_ _ _ _ _ _

_ _ _ _ _ _

_ _ _ _ _ _

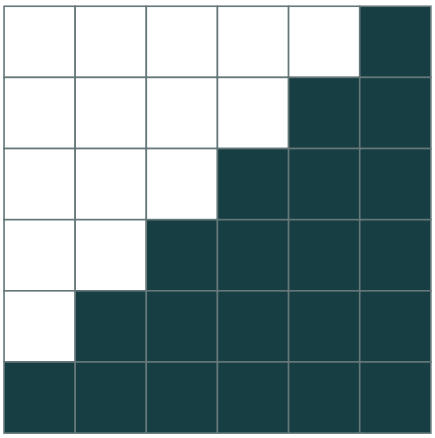
_ _ _ _ _ _

_ _ _ _ _ _

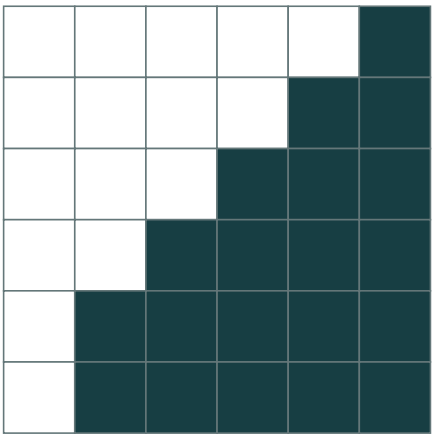
_ _ _ _ _ _

6. Tek bit onarımı - Uzun merdiven (6 x 6)

Hedef resim



Gelen resim: hatalı kareyi işaretle

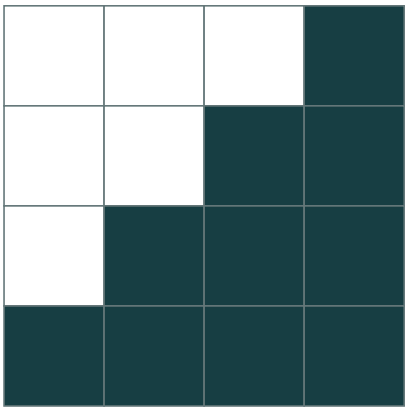


Düzeltilen bit: ____ . satır, ____ . sütun. Yeni değer: ____

Piksel Kod Atölyesi

Öğretmen cevap anahtarı

1. Koddan resme - Merdiven (decode-1)



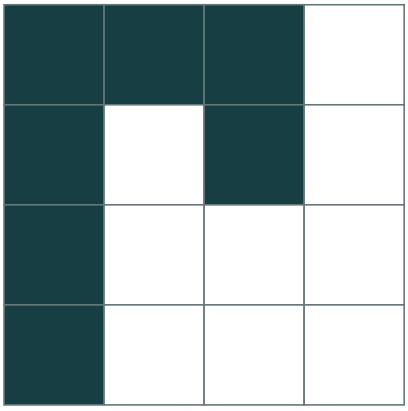
0 0 0 1

0 0 1 1

0 1 1 1

1 1 1 1

2. Resimden koda - Bayrak (encode-1)



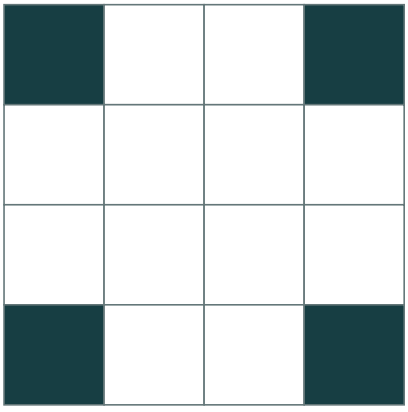
1 1 1 0

1 0 1 0

1 0 0 0

1 0 0 0

3. Tek bit onarımı - Dört köşe (repair-1)



1 0 0 1

0 0 0 0

0 0 0 0

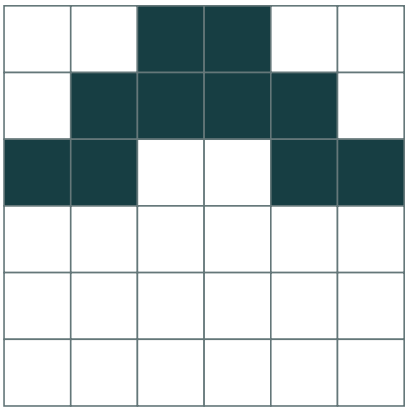
1 0 0 1

Onarım: 1. satır, 3. sütun. Doğru bit: 0

Piksel Kod Atölyesi

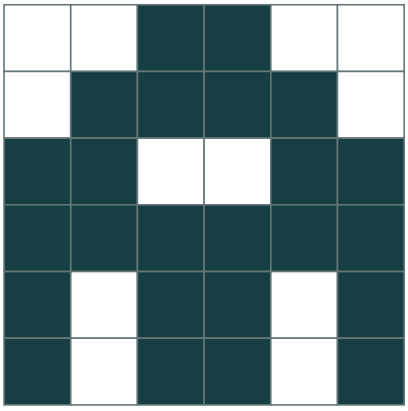
Öğretmen cevap anahtarı

4. Koddan resme - Çatı (decode-5)



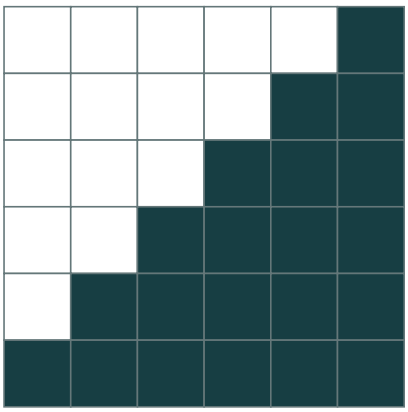
0 0 1 1 0 0
0 1 1 1 1 0
1 1 0 0 1 1
0 0 0 0 0 0
0 0 0 0 0 0
0 0 0 0 0 0

5. Resimden koda - Ev (encode-5)



0 0 1 1 0 0
0 1 1 1 1 0
1 1 0 0 1 1
1 1 1 1 1 1
1 0 1 1 0 1
1 0 1 1 0 1

6. Tek bit onarımı - Uzun merdiven (repair-5)



0 0 0 0 0 1
0 0 0 0 1 1
0 0 0 1 1 1
0 0 1 1 1 1
0 1 1 1 1 1
1 1 1 1 1 1

Onarım: 6. satır, 1. sütun. Doğru bit: 1