

## ÖDEV-2

Find the local alignment (yerel hizalama)

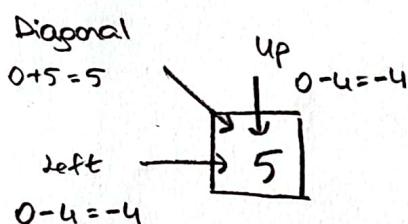
Dizi Q: GCTGGAAAGGAT → 12 hizat

Dizi P: GCAGAGGCACG → 10 hizat

match : 5  
mismatch : -4  
Gap : -4

Dizi Q →	-	G	C	T	G	G	A	A	G	G	C	A	T
Dizi P ↓	-	0	0	0	0	0	0	0	0	0	0	0	0
G	0	5	1	0	5	5	1	0	5	5	1	0	0
C	0	1	10	6	2	1	1	0	1	1	10	6	2
A	0	0	6	6	2	0	6	6	2	0	6	15	11
G	0	5	2	2	11	7	3	2	11	7	3	11	11
A	0	1	1	0	7	7	12	8	7	7	3	7	7
G	0	5	1	0	5	12	8	8	13	12	8	4	3
C	0	1	10	6	2	8	8	4	9	9	17	13	9
A	0	0	6	6	2	4	13	9	5	5	13	22	18
C	0	0	5	2	2	0	9	9	5	1	10	18	18
G	0	5	1	1	7	7	5	5	14	10	6	14	14

Hücre (1,1)

up , left

Bosluk  
değer.  
eklenir.

Alignment

Q: GAAGGGGCA

P: GCAG-GCA

Diagonal (Capraz)

match veya mismatch  
değer eklenir.

⊕ tüm değerler  
negatifse  
sıfır yazılır.

 $6 \cdot 5 = 30$  match $1 \cdot (-4) = -4$  mismatch $1 \cdot (-4) = -4$  Gap+

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