

```
PAIRWISE_TRACEBACK(alignment)
```

```
n <- délka alignment.seq01 + 1;
```

```
m <- délka alignment.seq02 + 1;
```

```
if m > n
```

```
    pairwise_align <- matice nul o rozměrech 2 a 2*(m-1)
```

```
else
```

```
    pairwise_align <- matice nul o rozměrech 2 a 2*(n-1)
```

```
aligned <- délka pairwise_align
```

```
clear pairwise_align
```

```
temp_direction_matrix <- alignment.direction_matrixm,n
```

```
i <- m
```

```
j <- n
```

```
k <- n-1
```

```
l <- m-1
```

```
while temp_direction_matrix
```

```
if alignment.direction_matrixi,j = 92
```

```
    pairwise_align1,aligned <- alignment.seq01k
```

```
    pairwise_align2,aligned <- alignment.seq02l;
```

```
    i <- i-1
```

```
    j <- j-1
```

```
    k <- k-1
```

```
    l <- l-1
```

```
    aligned <- aligned-1
```

```

elseif alignment.direction_matrixi,j = 62

  pairwise_align1,aligned <- alignment.seq01k;

  pairwise_align2,aligned <- '-'

  j <- j-1

  k <- k-1

  aligned <- aligned-1

```

```

elseif alignment.direction_matrixi,j = 94

  pairwise_align1,aligned <- '-'

  pairwise_align2,aligned <- alignment.seq02l

  i <- i-1

  l <- l-1

  aligned <- aligned-1

```

```

temp_direction_matrix <- alignment.direction_matrixi,j

pairwise_align <- pairwise_align1 to 2,aligned + 1 to délka pairwise_align

alignment.temporary_pair_align <- pairwise_align

```