

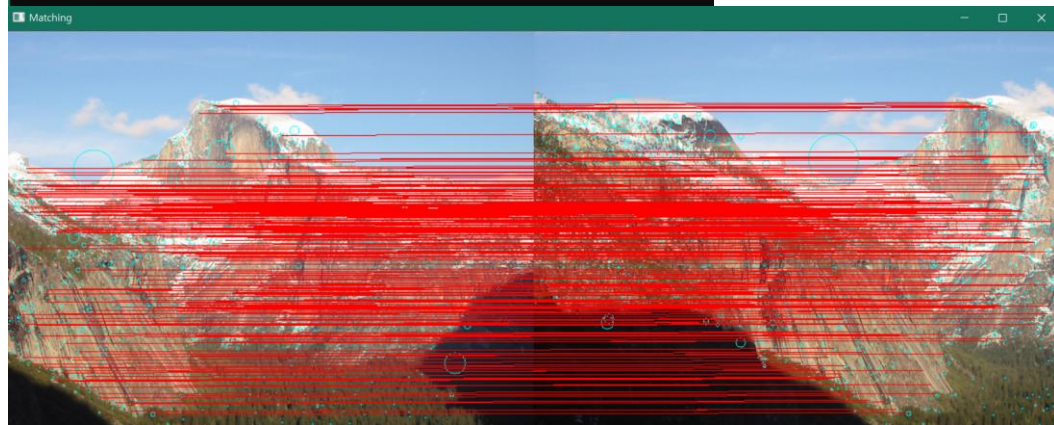
Assignment 07 Technical Report

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1. SIFT

Case 1 - crossCheck : false, ratio_threshold : false
(distance < 50 일때만 매칭)

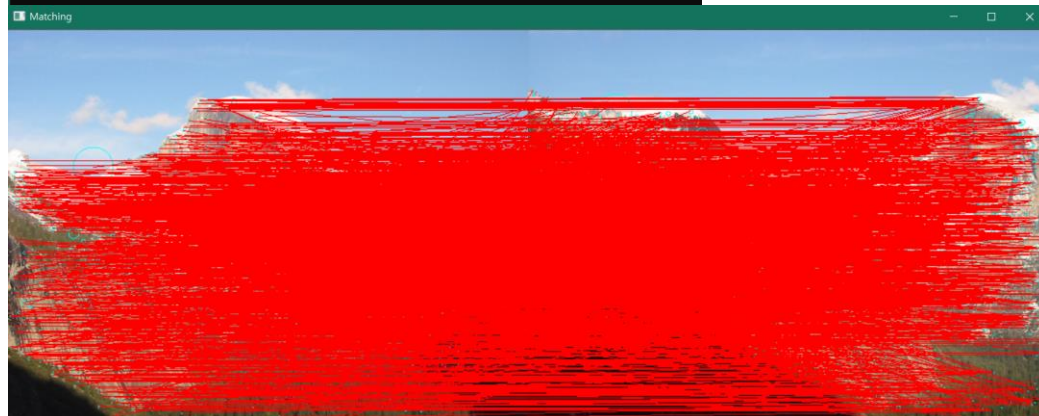
```
input1 : 2866 keypoints are found.  
input2 : 2623 keypoints are found.  
261 keypoints are matched.
```



(아래부터는 nearest neighbor를 구하는 과정에서 distance 제한을 엄격하게 하면 cross checking과 ratio threshold를 적용했을 때 매칭되는 점 개수에 차이가 별로 없어서 차이를 확인하기 위해 일부러 제한을 두지 않고 했습니다.)

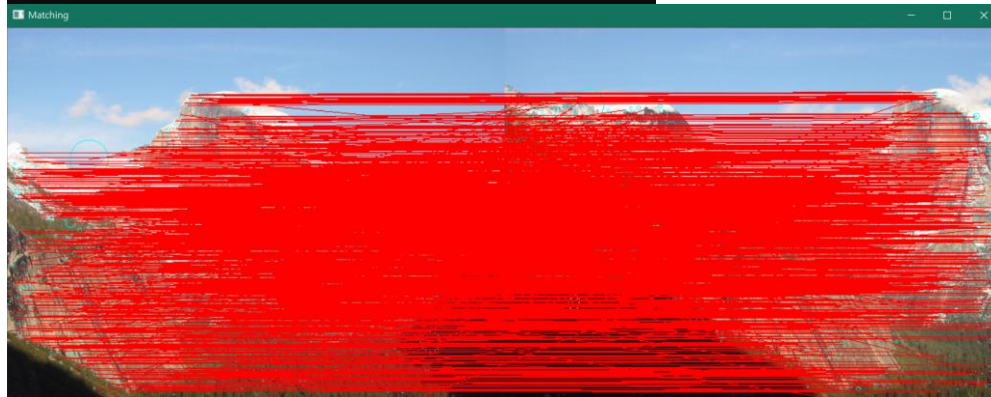
Case 1 - crossCheck : false, ratio_threshold : false

```
input1 : 2866 keypoints are found.  
input2 : 2623 keypoints are found.  
2623 keypoints are matched.
```



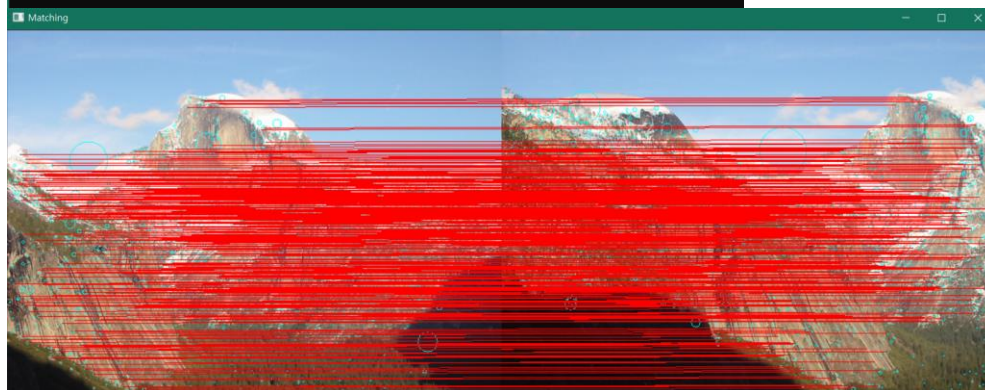
Case 2 - crossCheck : true, ratio_threshold : false

```
input1 : 2866 keypoints are found.  
input2 : 2623 keypoints are found.  
1354 keypoints are matched.
```



Case 3 - crossCheck : true, ratio_threshold : true

```
input1 : 2866 keypoints are found.  
input2 : 2623 keypoints are found.  
400 keypoints are matched.
```



2. finding object

