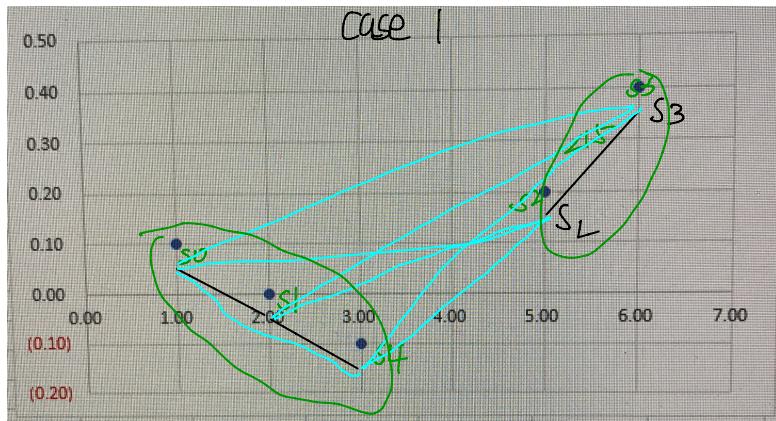


# SAMPLE INPUT

② → Test  
 ④ → # score  
 ⑤ 1.5 → real distance  
 1.0 0.1  $s_1$   
 2.0 0.0  $s_2$   
 5.0 0.2  $s_3$   
 6.0 0.4  $s_4$   
 3.0 -0.1  $s_5$   
 3 4.0  
 121.12 254.06  $s_1$   
 645.04 301.85  $s_2$   
 912.49 568.96  $s_3$

## CASE 1

$\{s_0, s_1, s_4\}$  } 2 sets  
 $\{s_2, s_3\}$



## Case 2

