

$\text{OPT}(s_1, s_2)$

- 3 cases

★  $\text{OPT}(4y-2, 4y-1) + \text{match}$   
 $s_1[1] \dots s_1[4y-2] (s_1[4y-1]) = a$  ✓  
 $s_2[1] \dots s_2[4y-1] (s_2[4y]) = a \text{ match}$

put  $y = 972$

$\text{OPT}(3886, 3887) + \text{score}(\text{match})$

$\text{OPT}(4y-2, 4y) + \text{space}$   
 $s_1[1] \dots s_1[4y-2] \quad s_1[4y-1]$   
 $s_2[1] \dots s_2[4y] \quad \underline{\hspace{2cm}}$

$\text{OPT}(4y-1, 4y-1) + \text{space}$   
 $s_1[1] \dots s_1[4y-1]$   
 $s_2[1] \dots s_2[4y-1] \quad s_2[4y] \quad \underline{\hspace{2cm}}$