⚠️ 您计算机的时区似乎与 Coursera 帐户的时区
设置 (America/Los_Angeles) 不符。
更改 Coursera 时区设置

Problem 1a

```
1   fun all_except_option (s,xs) =
2     case xs of
3         [] => NONE
4       | x::xs' => if same_string(s,x)
5                   then SOME xs'
6                   else case all_except_option(s,xs') of
7                             NONE => NONE
8                           | SOME y => SOME(x::y)
9
```

- It is fine for a solution to be more complicated if the reason is that it allows **s** to be in **xs** multiple times although the problem does not require handling this situation.

- It is fine to use the **=** operator directly instead of **same_string** even though the specification asked for **same_string**.

- A helper function is really not needed here, but many people will probably use one. Generally consider a good such solution to be worth a 4, but a 5 is okay if it is really nice.

Remember that you are grading on general style, not how close to the sample solution a student solution is. It is perfectly fine for a solution to be significantly different from the sample, as long as it has good style.

Problem 1b

Here is a sample solution:

```
1   fun get_substitutions1 (substitutions,str) =
2     case substitutions of
3         [] => []
4       | x::xs => case all_except_option(str,x) of
5                     NONE => get_substitutions1(xs,str)
6                   | SOME y => y @ get_substitutions1(xs,str)
7
```

- Give at most a 3 if they use helper functions other than **all_except_option** and ML's append operator **@**. This includes functions defined in get_substitutions1 as they are not helpful here.

- If a solution uses a local val binding for no useful purpose, still give a 5 if everything else is great, but this really is inferior style. For example:

```
1   fun get_substitutions1 (substitutions,str) =
2     case substitutions of
3         [] => []
4       | x::xs => let val foo = all_except_option(str,x)
5                  in case foo of
6                         NONE => get_substitutions1(xs,str)
7                       | SOME y => y @ get_substitutions1(xs,str)
8                  end
```

Remember that you are grading on general style, not how close to the sample solution a student solution is. It is perfectly fine for a solution to be significantly different from the sample, as long as it has good style.

Problem 1c

Here is a sample solution:

```
1   fun get_substitutions2 (substitutions,str) =
2     let fun loop (acc,substs_left) =
3         case substs_left of
4             [] => acc
5           | x::xs => loop ((case all_except_option(str,x) of
6                                 NONE => acc
7                               | SOME y => acc @ y),
8                            xs)
```