

- Grading Criterion (use **pts** instead of points for short):
 - 25 pts for each question.
 - Q1:
 - -25 pts: The program cannot run. Or, no ideas how to run it.
 - -20 pts: The program can run and get the same results without looping programming
 - -5 ~ -20 pts: Some outputs are not matched with the requests.
 - Q2~Q4:
 - -25 pts: The program cannot run. Or, no ideas how to run it.
 - -20 pts: The programs cannot fulfill the main purpose of this question.
 - -5 ~ 20 pts: Some outputs are not matched with the requests.

Q1)搭配loop與變數\$i；若變數\$i 被2除盡,算階乘值. 若變數\$i不被2除盡,顯示反轉值. 呈現如下.請使用 loop,呈現在Browser如下. p. s. 階乘值: $N!=N*(N-1)*(N-2)*...*2*1$

← → ↻ ⓘ localhost/midterm_ex21.php

變數\$i被2除盡,算階乘值
變數\$i不被2除盡,顯示反轉值:.
呈現如下. 請使用 loop

\$i 為 10, 所得階乘值為 3628800
\$i 為 11, 反轉值:11
\$i 為 12, 所得階乘值為 479001600
\$i 為 13, 反轉值:31
\$i 為 14, 所得階乘值為 87178291200
\$i 為 15, 反轉值:51

Q2) Please show the results as follows. The student name being searched and new one will be passed to the backend program. Additionally, the new one is used and showed on the output instead of the searched name.

localhost/midterm_ex3.html

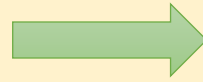
ksu select operation

查詢 ksu_std_table

新的學生姓名會取代被查詢的學生姓名

被查詢的學生姓名(有此姓名字串,皆會被查詢出來):

新的學生姓名:



localhost/midterm_ex31.php

ksu_std_table 學生於各系人數顯示如下:

學生姓名	新的姓名	學生成績	備註
John Sieg	Android Sieg	100	優
John Sieg	Android Sieg	100	優
John1	Android1	100	優
1John	1Android	100	優
John Sieg	Android Sieg	99	
John Sieg	Android Sieg	55	補考

6 records found!

Q3) Please show the results as follows. The backend program just search the students that department is not the same as the one passed by the frontend interface. Your results need to demonstrate the total number of students found, the number of students failed, and the number of students' grades than 79.

localhost/midterm_ex4.html

ksu select operation

按查詢鍵, 進階查詢 ksu_std_table

除此系別代號的學生外,
所有學生姓名,成績,系別皆會被查詢與顯示:



localhost/midterm_ex41.php

ksu_std_table 學生於各系人數顯示如下:

學生姓名	學生成績	年齡	系別	備註
1John	100	44	QQ	
John Sieg	100	33	IE	
John Sieg	99	44	IE	
Mary Wee	80	34	IM	
Mike Fire	77	32	IE	
WuBer Eat	33	22	IM	補考

6 名學生被查詢到!
其中不及格的人數1 人
其中高於79分的人數4 人

上列學生總平均: 81.500分

Q4) Please show the results as follows. Your backend program has to process the assigned table, and classify the department number and calculate the its corresponding student numbers.

localhost/midterm_ex51.html

ksu select operation

查詢 ksu_std_table

註記 ksu_std_table 所有學生姓名中，
包含底下含此字串的學生



localhost/midterm_ex51.php

ksu_std_table 學生於各系人數顯示如下:

學生姓名	學生成績	備註
John Sieg	100	*
John1	100	*
John Sieg	100	*
1John	100	*
John Sieg	99	*
Mary Wee	80	
Mike Fire	77	
John Sieg	55	*
Foot Penny	44	
WuBer Eat	33	

10 records found!

The following hints are for your inquiry.

Hints:

Definition and Usage

The `str_replace()` function replaces some characters with some other characters in a string.

This function works by the following rules:

- If the string to be searched is an array, it returns an array
- If the string to be searched is an array, find and replace is performed with every array element
- If both find and replace are arrays, and replace has fewer elements than find, an empty string will be used as replace
- If find is an array and replace is a string, the replace string will be used for every find value

Note: This function is case-sensitive. Use the `str_ireplace()` function to perform a case-insensitive search.

Note: This function is binary-safe.

Syntax

```
str_replace(find,replace,string,count)
```

Parameter Values

Parameter	Description
<i>find</i>	Required. Specifies the value to find
<i>replace</i>	Required. Specifies the value to replace the value in <i>find</i>
<i>string</i>	Required. Specifies the string to be searched
<i>count</i>	Optional. A variable that counts the number of replacements

Definition and Usage

The `strpos()` function finds the position of the first occurrence of a string inside another string.

Note: The `strpos()` function is case-sensitive.

Note: This function is binary-safe.

Related functions:

- `strrpos()` - Finds the position of the last occurrence of a string inside another string (case-sensitive)
- `stripos()` - Finds the position of the first occurrence of a string inside another string (case-insensitive)
- `strripos()` - Finds the position of the last occurrence of a string inside another string (case-insensitive)

Syntax

```
strpos(string,find,start)
```

Parameter Values

Parameter	Description
<i>string</i>	Required. Specifies the string to search
<i>find</i>	Required. Specifies the string to find
<i>start</i>	Optional. Specifies where to begin the search. If <i>start</i> is a negative number, it counts from the end of the string.

Definition and Usage

The `strcmp()` function compares two strings.

Note: The `strcmp()` function is binary-safe and case-sensitive.

Tip: This function is similar to the `strncmp()` function, with the difference that you can specify the number of characters from each string to be used in the comparison with `strncmp()`.

Syntax

```
strcmp(string1,string2)
```

Parameter Values

Parameter	Description
<i>string1</i>	Required. Specifies the first string to compare
<i>string2</i>	Required. Specifies the second string to compare

Definition and Usage

The `strchr()` function searches for the first occurrence of a string inside another string.

This function is an alias of the `strstr()` function.

Note: This function is binary-safe.

Note: This function is case-sensitive. For a case-insensitive search, use `stristr()` function.

Syntax

```
strchr(string, search, before_search);
```

Parameter Values

Parameter	Description
<i>string</i>	Required. Specifies the string to search
<i>search</i>	Required. Specifies the string to search for. If this parameter is a number, it will search for the character matching the ASCII value of the number
<i>before_search</i>	Optional. A boolean value whose default is "false". If set to "true", it returns the part of the string before the first occurrence of the <i>search</i> parameter.

Definition and Usage

The `strrev()` function reverses a string.

Syntax

```
strrev(string)
```

Parameter Values

Parameter	Description
<i>string</i>	Required. Specifies the string to reverse

The End