

# 1. Input & reverse a string

Write a program using `getchar()` function only to read the character string from the keyboard until '.' is terminated, then reverse the string and display result on the screen. The output from your program looks something like

```
Enter string ended by . : Hello.
The original string: Hello
The reverse string: olleH

Another run (y/n)? y
Enter string ended by . : How are you.
The original string: How are you
The reverse string: uoy era woH

Another run (y/n)? _
```

# 2. Words processing

Write a menu driven program with the options below:

```
Choose one of the following options:
1. Input a string
2. Split a string into words
3. Convert a string into proper form
4. Remove redundant spaces
5. Check valid name
0. Exit
Your selection (0 -> 6): 1
```

Sample input and output:

```
Choose one of the following options:
1. Input a string
2. Split a string into words
3. Convert a string into proper form
4. Remove redundant spaces
5. Check valid name
0. Exit
Your selection (0 -> 6): 1
Input a string: how are you today
Choose one of the following options:
1. Input a string
2. Split a string into words
3. Convert a string into proper form
4. Remove redundant spaces
5. Check valid name
0. Exit
Your selection (0 -> 6): 2
The original string: how are you today
Number of words in the string: 4, they are
how
are
you
today
Choose one of the following options:
1. Input a string
2. Split a string into words
3. Convert a string into proper form
4. Remove redundant spaces
5. Check valid name
0. Exit
Your selection (0 -> 6): 3
The original string: how are you today
The proper form: How Are You Today
```

```
Choose one of the following options:
1. Input a string
2. Split a string into words
3. Convert a string into proper form
4. Remove redundant spaces
5. Check valid name
0. Exit
Your selection (0 -> 6): 1
Input a string: hello my frien how are you
Choose one of the following options:
1. Input a string
2. Split a string into words
3. Convert a string into proper form
4. Remove redundant spaces
5. Check valid name
0. Exit
Your selection (0 -> 6): 4
The original string: hello my frien how are you
The cleaned form: hello my frien how are you
Choose one of the following options:
1. Input a string
2. Split a string into words
3. Convert a string into proper form
4. Remove redundant spaces
5. Check valid name
0. Exit
Your selection (0 -> 6): 1
Input a string: nguyen 5 van $ quan
Choose one of the following options:
1. Input a string
2. Split a string into words
3. Convert a string into proper form
4. Remove redundant spaces
5. Check valid name
0. Exit
Your selection (0 -> 6): 5
The string: nguyen 5 van $ quan is not a valid name
Choose one of the following options:
```