

# Make Up Exam: Algorithm

WEP 2024

{2h: 00}

16<sup>th</sup> December 2023

- All documents **NOT** allowed
- Chatting and talking to other students are forbidden

EXERCICES	POINTS
EXERCICE 1	30
EXERCICE 2	40
EXERCICE 3	30
<b>TOTAL</b>	<b>100</b>

## Exercise 01 - 30pts

Mr. Vanda is selling coconut every day and he record his income in the list per week.

moneysOfWeekOne = [10, 15, 9, 20, 5, 30, 12]

Write program to answer the question below:

*Question 1: How much Mr. Vanda earn in week one? – 10pts*

*Question 2: Find average income of Mr. Vanda in week one. – 10pts*

*Question 3: Find the lowest income of Mr. Vanda in week one. – 10pts*

## Exercise 02 - 30pts

Teacher Him plan to do his wedding with **100\$** budget. He will spent on drink following list below:

```
drink = [  
  {"name": "cocacola", "price": 8},  
  {"name": "Hanuman", "price": 10},  
  {"name": "Water", "price": 5},  
]
```

Write program to answer the question below:

*Question 1: Find remaining money after his spent on drink – 10pts*

He also spent on food following list below:

```
foods = [  
    {"name": "fish", "price": 9},  
    {"name": "meat", "price": 12},  
    {"name": "chicken", "price": 7},  
]
```

*Question 2: How much his spent on drink and food? – 10pts*

During his wedding, he invite only five guests to join his wedding day. Each guest will pay some money back after eating dinner party for his wedding following list below:

```
guests = [  
    {"name": "rady", "pay": 20},  
    {"name": "sokhom", "pay": 10},  
    {"name": "yon", "pay": 25},  
    {"name": "mengheang", "pay": 5},  
    {"name": "dara", "pay": 15},  
]
```

*Question 3: After married, how much his money remaining include with guest pay back? – 20pts*

## Exercise 03 30pts

In fruit store containing the list of fruit like: ["banana", "mango", "coconut", "orange"]

Write program to answer question below:

*Question 1: How many type of fruit in store? – 5pts*

*Question 2: Count the number of letters each fruit expect result: [6, 5, 7, 6] – 10pts*

*Question 3: Remove fruit name that contain letter "o" from list expect result: ["banana"] – 15pts*