Name	:	
Matric No	:	SCSJ 1013 Programming Techniques I
Date	:	Programming Techniques I

Write a complete program that calculates the total and the average of marks for any number of subjects taken by a student. The marks are stored in a dynamically allocated array. Basically, the program will perform the following tasks:

- i. Prompt the user to enter the number of subjects taken by the student.
- ii. Create an array with a dynamically allocated memory to hold the specified number of marks.
- iii. Prompt the user to enter the marks for each subject and store them in the allocated array.
- iv. Calculate total of the marks.
- v. Calculate average of the marks.
- vi. Display the output (total marks and average).
- vii. Free the allocated memory and make the pointer point to null.

The output of the program would be as follows.

```
Please enter number of subjects taken: 5

Please enter the marks of each subject.

Subject 1: 95.5

Subject 2: 90

Subject 3: 85.5

Subject 4: 88.5

Subject 5: 92

Total of Marks: 451.5
```

Figure 1: The sample run

Item	Criteria	Marks
A	i) The program is able to run and display correct output	2
	ii) Using an appropriate structure for the program (e.g. all required header files are included and the function main is properly written)	2
В	Using pointer concept in the program	26
Total		30