Introduction to Programming (2)

Pointers and Dynamic Objects - 2

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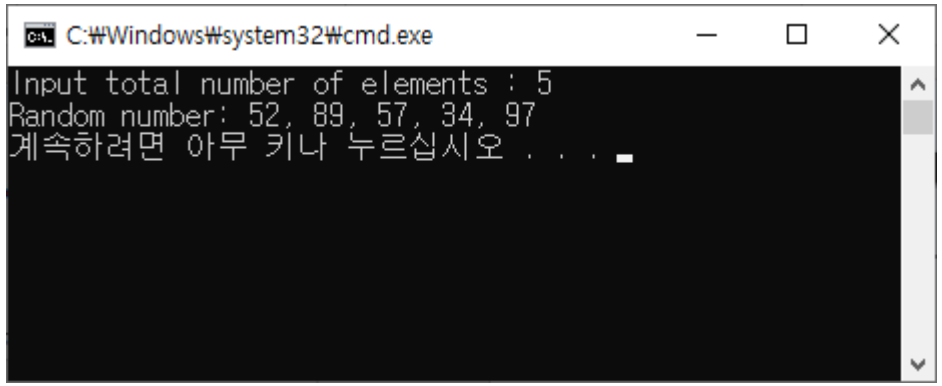
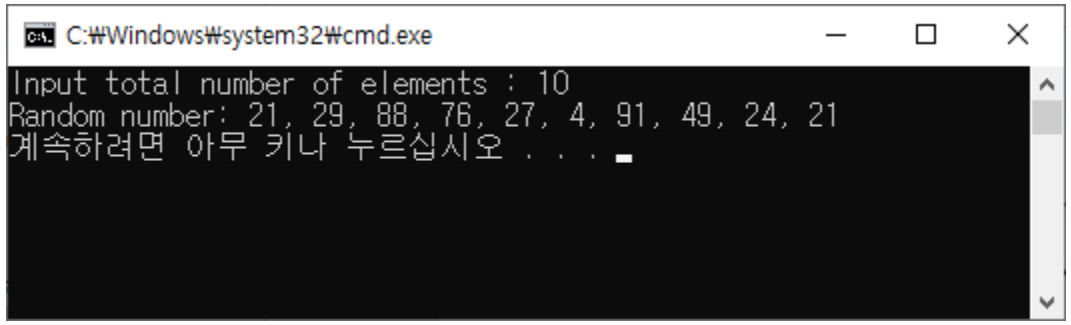
Practice Class

- Upload the report paper in e-class
  - The report paper has to include **1) the source code, 2) the snapshot, and 3) the description of the program**
  - File name is date_studentid (ex: 20220915_22xxxxx.docx)

Problem #1

- Write a program to
  - get a number of elements
  - generate random numbers and store in the array
  - show the random numbers
  - use **dynamic memory allocation**





Problem #2

- Complete the printMean function
  - It has to show the average of the grades (ex: 27.33 = (15+17+50)/3)

```
#include <iostream>

void printMean(int* grades, int n)
{
//To be defined
}
void main() {
	int n;
	std::cout << "How many students ? ";
	std::cin >> n;
	int* grades = new int[n];
	for (int i = 0; i < n; i++) {
		int mark;
		std::cout << "Input Grade for Student" << (i + 1) << "? : ";
		std::cin >> mark;
		grades[i] = mark;
	}
	printMean(grades, n); // call a function with dynamic array
}
```