



## Challenge 3: Calculate Mean and Standard Deviation from Array

In this lesson, we will practice allocating and manipulating dynamic memory.

We'll cover the following



- Problem statement
- Coding exercise

## Problem statement#

In this challenge, you have to perform the following tasks:

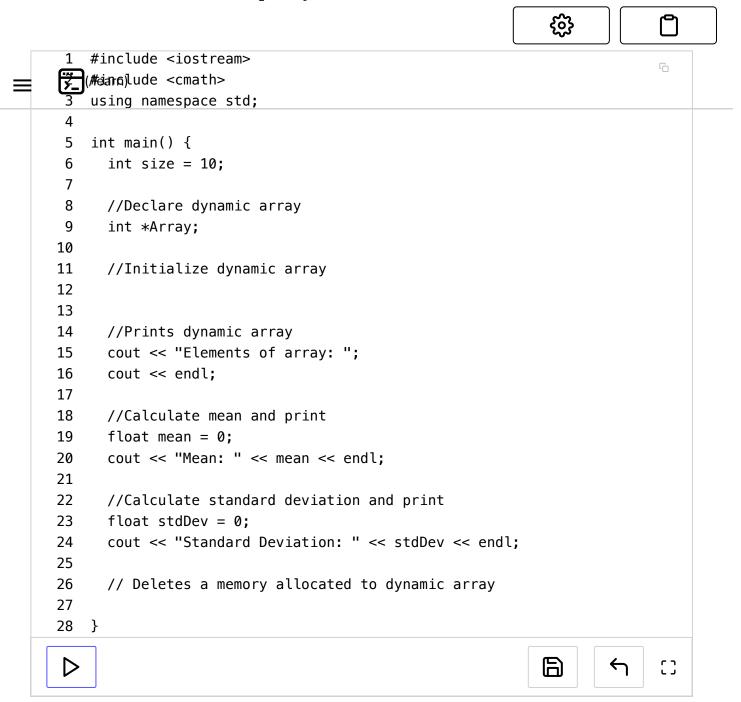
- Use a pointer to allocate a dynamic array of size 10.
- Initialize this array with random numbers between 0 and 99.
- Then, calculate the mean and standard deviation of these numbers and print them.
- Finally, deallocate the memory used by the array.

Note: You can use the rand() method to generate random numbers.

## Coding exercise#

Implement the solution in the code playground given below. After solving, check next lesson and compare your solution.

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**If** you have solved the problem, congratulations!

In case you are stuck, let's go over the solution review in the next lesson.

