



Vectors

Q1.: Write a C++ program that reads this vector $V = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$ and print it. Then remove the third to fifth elements and print the vector again.

Q1.: Write a C++ program that asks user to input 5 doubles to a vector and print it. Then find the square of the first element and add it to the end of the vector.

Q2.: Write a C++ print this vector $V = \{2, 5, 3, 6, 4, 23, 6\}$. Then check the last element, if it is even, remove it.

Q3.: Write a C++ program that asks user to input 5 doubles to a vector. Then if the last element is positive, remove it and find the square of the first element. Then add this square to the end of the vector and print the vector.

Q4.: Write a C++ program that checks if the elements in the following vector are sorted from small to large. The program should return “It is sorted” if the elements start from small to large, and “It is NOT sorted” if it is not. (Use function)

$V1 = \{5, 7, 3, 4, 1, 6, 2\}$

$V2 = \{5, 7, 9, 12, 55, 77, 89\}$

Q5.: Write a C++ program that checks if the elements in the following two vectors can be rearranged in such a way that each number appears exactly once in a continuous sequence (1, 2, 3, 4, 5, ...). The program should return **“It is continuous sequence”** if this is possible, and **“It is non-continuous sequence”** if it is not. (Use function)

$V1 = \{5, 7, 3, 4, 1, 6, 2\}$

$V2 = \{0, 7, 3, 4, 1, 6, 2, 9\}$