```cpp
/**
File: Ned_Smith_lab8_task1
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*/

#include <iostream>
#include <string>
#include <iomanip>
using namespace std;

void initialize(double array1[], int size1);
void print(double array1[], int size1);
int main()
{
    double alpha[50]; ///Initialize an array of 50 components
    initialize(alpha, 50); ///Call the function that initializes the components
    print(alpha, 50); ///Call the function that prints the components of the array
    return 0;
}

void initialize(double array1[], int size1)
{
    int i;
    for (i = 0; i < 25; i++) /// Create a for loop that will run for 25 iterations and
    {
        array1[i] = i * i; ///Sets the current component equal to i squared
    }
    for (i = 25; i < 50; i++) /// Create a for loop that wil run for 25 iterations and does the
following:
    {
        array1[i] = 3 * i; ///Sets the current component equal to i times 3
    }
}

void print(double array1[], int size1)
{
    int i;

    for (i = 0; i < size1; i++) ///Create a for loop that will run 50 times and does the following:
    {
        cout << setw(4) << array1[i] << " "; ///Prints out the current component and prints a new
line if the component is the 10th component on the line
        if ((i + 1) % 10 == 0)
            cout << endl;
    }
}
```