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**Question 1:**

#include <iostream>

int main()

{

    int \*speed = new int;

    double \*travelTime = new double;

    double \*distance;

    \*speed = 65;

    \*travelTime = 8.5;

    distance = new double;

    \*distance = (\*speed)\*(\*travelTime);

    std::cout << \*distance << std::endl;

    delete speed, travelTime, distance;

    return 0;

}

**Output:**

****

**Question 2:**

#include <iostream>

void swapUsingPointers(int \*a, int \*b) {

    int temp = \*a;

    \*a = \*b;

    \*b = temp;

}

void swapUsingReferences(int &a, int &b) {

    int temp = a;

    a = b;

    b = temp;

}

int main() {

    int num1 = 10;

    int num2 = 20;

    std::cout << "Before swapping: num1 = " << num1 << ", num2 = " << num2 << '\n';

    swapUsingPointers(&num1, &num2);

    std::cout << "After pointer swapping: num1 = " << num1 << ", num2 = " << num2 << '\n';

    num1 = 10;

    num2 = 20;

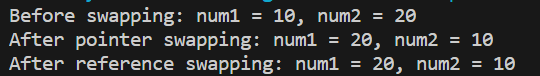
    swapUsingReferences(num1, num2);

    std::cout << "After reference swapping: num1 = " << num1 << ", num2 = " << num2 << '\n';

    return 0;

}

**Output:**

****

**Question 3:**

#include <iostream>

int main() {

    int arr[5];

    int\* ptrarr = arr;

    int sum = 0;

    std::cout << "Input 5 values for array\n";

    for (int i = 0; i < 5; i++) {

        std::cin >> \*(ptrarr + i);

        sum += \*(ptrarr + i);

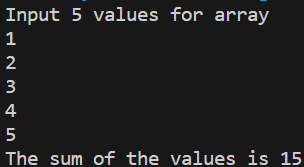
    }

    std::cout << "The sum of the values is " << sum;

    return 0;

}

**Output:**

****

**Question 4:**

#include <iostream>

int main() {

    int size, search;

    std::cout << "Input array size: ";

    std::cin >> size;

    int \*ptrarr = new int[size];

    std::cout << "Input " << size << " array values\n";

    for (int i = 0; i < size; i++)

        std::cin >> \*(ptrarr + i);

    std::cout << "Input value to search for: ";

    std::cin >> search;

    for (int i = 0; i < size; i++) {

        if (search == \*(ptrarr + i)) {

            std::cout << "Value found at index " << i;

            break;

        }

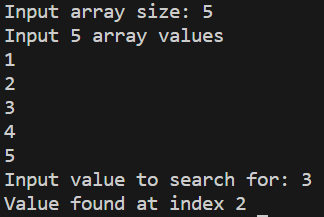
    }

    delete[] ptrarr;

    return 0;

}

**Output:**

****

**Question 5:**

#include <iostream>

void reverseArray(int \*arr, int size) {

    int temp;

    for (int i = 0; i < size / 2; i++)

    {

        temp = \*(arr + i);

        \*(arr + i) = \*(arr + size - i - 1);

        \*(arr + size - i - 1) = temp;

    }

}

int main() {

    int size, search;

    std::cout << "Input array size: ";

    std::cin >> size;

    int \*ptrarr = new int[size];

    std::cout << "Input " << size << " array values\n";

    for (int i = 0; i < size; i++)

        std::cin >> \*(ptrarr + i);

    reverseArray(ptrarr, size);

    std::cout << "Outputting reversed array\n";

    for (int i = 0; i < size; i++)

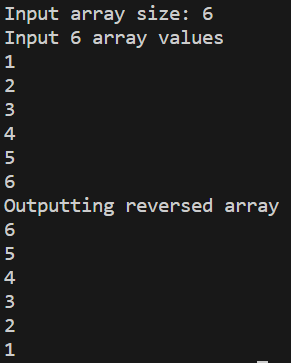
        std::cout << \*(ptrarr + i) << '\n';

    delete[] ptrarr;

    return 0;

}

**Output:**

****