**Instructions: Please read carefully**

* Please rename this file as only your ID number **(e.g. 18-\*\*\*\*\*-1.docx or 18-\*\*\*\*\*-1.pdf).**
* Submit the file before **11:59pm on 22/09/2022** in the **Portal>Result>Mid>Lab Performance** section labeled **Task 1. If you cannot complete the full task, do not worry. Just upload what you have completed.**

**Do not Copy!!!**

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| 1. Initialize an array of 10 elements and print the array elements both in normal and reverse order.   For example,  Output:  **12 32 43 1 54 53 15 64 3 13**  **13 3 64 15 53 54 1 43 32 12** |
| **Your code here:**  #include<iostream>  using namespace std;  int main(){  int n;  cout<<"Enter the array size "; cin>>n;  int array[n];  for( int i = 0; i < n; i++ ){ cin>>array[i]; }  for(int i = 0; i < n; i++ ){  cout<<array[i]<<" "; }  cout<<endl;  for( int i = n-1; i >= 0; i-- ){  cout<<array[i]<<" "; }  return 0 ;  } |
| **Your whole Screenshot here: (Console Output):** |
| 1. Initialize an integer array of 10 elements and print how many numbers are odd and how many numbers are even.   For example,  Input: **12 32 43 1 54 53 15 64 3 13**  Output:  **6 odd numbers**  **4 even numbers** |
| **Your code here:**  #include<iostream>  using namespace std;  int main(){  int n, even=0, odd=0;  cout<<"Enter the array size: ";  cin>>n;  int array[n];  for( int i=0; i<n; i++ ){  cin>>array[i];  }  for( int i=0; i<n; i++ ){  if( array[i] % 2 == 0 ){  even++; }  else{  odd++; }  }  cout<<odd<<" Odd numbers"<<endl;  cout<<even<<" Even numbers"<<endl;  return 0 ;  } |
| **Your whole Screenshot here: (Console Output):** |

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| 1. Write a function that takes TWO parameters to print all the odd numbers between a given range. Input the starting value of the range and ending value of the range. Then, send them as the parameters to your function.   For example,  Output:  **Starting value: 12**  **Ending value: 23**  **13 15 17 19 21 23** |
| **Your code here:**  #include<iostream>  using namespace std;  int process( int x )  {  if( x % 2 == 0 ){  return 2;  }  else{  return 1;  }  }  int main()  {  int n, even=0, odd=0;  cout<<"Enter the array size: ";  cin>>n;  int array[n];  for( int i=0; i<n; i++ ){  cin>>array[i];  }  for( int i=0; i<n; i++ )  {  int re = process(array[i]);  if( re == 2 ){  even++;  }  else{  odd++;  }  }  cout<<odd<<" Odd numbers"<<endl;  cout<<even<<" Even numbers"<<endl;  return 0 ;  } |
| **Your whole Screenshot here: (Console Output):** |

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| 1. Write a program to perform Insert a value in following scenario:  * Add 100 at the end of the array * Add 200 in index number 4 * Add 300 in the beginning of the array   For example,  Output:  **Given array: 1 2 3 4 5 6 7 8 9 10**  **Output array after addition: 300 1 2 3 4 200 5 6 7 8 9 10 100** |
| **Your code here:**  #include<iostream>  using namespace std;  int main()  {  int arr[50], i, tot;  cout<<"Enter the Size for Array: ";  cin>>tot;  cout<<"Enter "<<tot<<" Array Elements: ";  for(i=0; i<tot; i++)  {  cin>>arr[i];  }  int elem1 = 100;  int pos1 = 1;  for(i=tot; i>=pos1; i--)  {  arr[i] = arr[i-1];  }  arr[i] = elem1;  tot++;  int elem2 = 200;  int pos2 = 6;  for(i=tot; i>=pos2; i--)  {  arr[i] = arr[i-1];  }  arr[i] = elem2;  tot++;  int elem3 = 300;  int pos3 = tot+1;  for(i=tot; i>=pos3; i--)  {  arr[i] = arr[i-1];  }  arr[i] = elem3;  tot++;  cout<<"Output array after addition: ";  for(i=0; i<tot; i++)  cout<<arr[i]<<" ";  cout<<endl;  return 0;  } |
| **Your whole Screenshot here: (Console Output):** |

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| 1. Write a program to perform deletion a value in following scenario:  * Delete last value * Delete value 5 * Delete first value   For example,  Output:  **Given array: 1 2 3 4 5 6 7 8 9 10**  **Output array: 2 3 4 6 7 8 9** |
| **Your code here:** |
| **Your whole Screenshot here: (Console Output):** |