**Practice 10.5 Array-related problems**

1. WAP that will take n integer numbers into an array, and then sum up all the integers in that array.

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| **Sample input** | **Sample output** |
| 5  1  2  3  4  5 | 15 |
| 6  2  8  3  9  0  1 | 23 |

1. WAP that will take n integer numbers into an array, and then sum up all the integers in the even indexed Position.

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| **Sample input** | **Sample output** |
| 5  1  2  3  4  5 | 9 |
| 6  2  8  3  9  0  1 | 5 |

1. WAP that will take n integer numbers into an array, and then reverse all the integers within that array. Finally, print them all from 0 index to the last valid index.

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| **Sample input** | **Sample output** |
| 5  1  2  3  4  5 | 5  4  3  2  1 |
| 6  2  8  3  9  0  1 | 1  0  9  3  8  2 |

1. WAP that will take n integer numbers into an array, and then find the maximum -minimum among them with its index position.

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| **Sample input** | **Sample output** |
| 5  1  2  3  4  5 | Max: 5, Index: 4  Min: 1, Index: 0 |
| 6  2  8  3  9  0  1 | Max: 9, Index: 3  Min: 0, Index: 4 |

1. WAP that will take n integers into an array, and then search a number into that array. If found then print its index. If not found then print “NOT FOUND”.

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| **Sample input** | **Sample output** |
| 8  7 8 1 3 2 6 4 3  3 | FOUND at index position: 3, 7 |
| 8  7 8 1 3 2 6 4 3  5 | NOT FOUND |

1. WAP that will take n integers into an array A and m positive integers into array B. Now find the intersection (set operation) of arrays A and B.

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| **Sample input** | **Sample output** |
| 8  7 8 1 5 2 6 4 3  6  1 3 6 0 9 2 | 1 2 6 3 |
| 3  1 2 3  2  4 5 | Empty set |

1. WAP that will take n positive integers into an array A. Now find all the integers that are divisible by 3 and replace them by -1 in array A. Finally show all elements of array A.

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| **Sample input** | **Sample output** |
| 8  7 8 1 3 2 6 4 3 | 7 8 1 -1 2 -1 4 -1 |
| 3  3 2 1 | -1 2 1 |

1. WAP that will take n integers into an array A. Now remove all duplicate numbers from that array. Finally, print all elements from that array.

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| **Sample input** | **Sample output** |
| 8  2 8 1 3 2 6 4 3 | 2 8 1 3 6 4 |
| 3  3 3 3 | 3 |
| 4  6 7 8 9 | 6 7 8 9 |