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Class (Section)	IST 140.2

Practice Problems 6.1

Intro to Arrays

DECLARING ARRAYS

For each problem write the statement that declares an array with the given name, of the given type and size.

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|---------------------------|-----------------------------|-----------------------------|-------------------------------|
| 1) chapterPages, int, 6 | <u>int [] chapterPages</u> | 4) flipWins, boolean, 5 | <u>boolean [] flipWins</u> |
| 2) bookPrices double, 20 | <u>double [] bookPrices</u> | 5) possibleCharac, char, 40 | <u>char [] possibleCharac</u> |
| 3) bookTitles, String, 12 | <u>String [] bookTitles</u> | 6) lot, char, 24 | <u>char [] lot</u> |

INITIALIZING ARRAYS

For each problem, refer to the corresponding array mentioned in the DECLARING ARRAYS section. For each of the problems write the statement that just initializes the respective array. Do not assign any values.

- | | |
|---------------------------|---------------------------|
| 1) <u>new int[6];</u> | 4) <u>new boolean[5];</u> |
| 2) <u>new double[20];</u> | 5) <u>new char[40];</u> |
| 3) <u>new String[12];</u> | 6) <u>new char[24];</u> |

ASSIGNING VALUES TO ARRAYS

For these problems you are working the corresponding arrays in the past sections. For these problems you are assigning values to those arrays. Each problem has an integer and a value (in that order). Use the integer for the location in the array, and the value is what you are assigning to the array at that location.

- | | | | |
|------------------------|---|----------------|---------------------------------------|
| 1) 2, 5 | <u>int chapterPages[2] = 5;</u> | 4) 2, thirdWin | <u>Boolean flipWins[2] = thirdWin</u> |
| 2) 4, 23.4 | <u>double bookPrices[4] = 23.4;</u> | 5) 11, 'k' | <u>char possibleCharac[11] = 'k'</u> |
| 3) 7, "Hidden Figures" | <u>String bookTitles[7] = "Hidden Figures";</u> | 6) 2, KITT | <u>char lot[2] = KITT;</u> |

USING ENHANCED FOR LOOP

In the following code, there is a portion missing. Below the code snippet, you can put your answer. It should be an enhanced for loop that allows the code to work.

```
public static void main(String[] args) {
    int[] nums = {23, 45, 89, 112, 13, 29};

    int sum = findSum(nums);

    System.out.println(sum);
}
```

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```
}  
  
public static int findSum(int[] nums){  
    int sum = 0;  
    for(int element : values){  
        sum = element + sum;  
    }  
  
    return sum;  
}
```

Your Answer:

```
for(int element : values){  
    sum = element + sum;  
}
```