Arrays Worksheets   Name_____Date_____

1. Answer the following given the code below:

```
int a = 100;
int b = 50;
int example[b] ;
double ex2[a]
```

a. The valid range of index values for **example** is: _____

b. The valid range of index values for **ex2** is: _____

c. The data type of example is: _____

d. The data type of ex2 is: _____

2. Declare an array called arrayEx and initialize its components to 5, 10 and 70. (hint look at number 6)

3. Declare an array called delta whose index values range from 0 through 999 and whose element type is double.

4. Initialize the array(delta) declared in problem (3) above. All values in the array should hold 15.

5. Consider the following code: `char [] chars = new char[25];`

Write the code to store the letter 'R' into the seventh location of the array.

6. What does the following code segment do?

```
 #include<stdio.h>

int main()
{
int arr[4] = {1,5,4,2};
int sum = arr[0];
int i = 0;
while(i< 4){
        sum = sum + arr[i];
        i++;
        }
printf("%d \n", sum);
return 0;
}
```

Describe in your own words

7. What happens to the same code as (6) but with one small modification:

```
i #include<stdio.h>

int main()
{
int arr[4] = {1,5,4,2};
int sum = arr[0];
int i = 0;
while(i< 4){
        i++;
        sum = sum + arr[i];
        }
printf("%d \n", sum);
return 0;
}
```

Describe in your own words