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COMP 3111: Software Engineering

Lecture 12 Exercise: Debugging

Identify bugs in the following three different code fragments.

Code Fragment #1

```
int minval(int *A, int n) {  
    int currmin;  
    for (int i=0; i<n; i++)  
        if (A[i] < currmin)  
            currmin = A[i];  
    return currmin;  
}
```

currmin not initialized

Code Fragment #2

```
char* string1 = "Hello";  
char* string2 = "World";  
  
if (string1 == string2)  
    do_something();
```

only compare values of two pointers

Code Fragment #3

```
int i;  
int array[5];  
int j;  
  
for (i=0; i<=5; i++)  
    cin >> array[i];
```

off-by-one error