

Program Analysis

Benchmark program

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Benchmark program

The following tiny program in WHILE – language is of particular interest in regards with Detection of Signs Analysis.

```
int x = -1,  
int size = 4;  
int A[size];  
while (x < 5) do  
    A[x] = 42;  
    x = x + 1;  
od
```

The code above will generate buffer underflow and overflow error. This is because of the size of the array *A* as well as the variable *x* that is used as an index for accessing the array.