REVIEW

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PASSING
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// Simple variable.
int main(void) {
int i;
i = 55;
                 // By value
    FOO(i);
                 // By reference
    BAR(&i);
}
// Simple pointer variable.
int main(void) {
int *j;
    j = (int*)calloc(1, sizeof(int));
    *j = 100;
                // By value
    FOO(*j);
   BAR(&(*j));
                 // By reference
                   // By reference
    BAR(j);
```

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RECEIVING
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// By value.
void FOO(int I) {
    I = 42;
    printf("FOO: %d\n", I);
}

// By reference.
void BAR(int *I) {
    *I = 42;
    printf("BAR: %d\n", *I);
}
Note the receiving end is usually the
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Note the receiving end is usually the same regardless if a pointer or simple variable is being passed to the function.

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// Pointer by reference.
void FOOBAR(int *(*I)) {
   *I = (int*)calloc(1, sizeof(int));
   *(*I) = 42;
   printf("FOOBAR: %d\n", *(*I));
}
```