Code Tracing

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Variables in Main Function values over time

int s = 5 ;

int t = 4 ; 10 ; } Changed due to pass by reference

int y = 41 ; 10 ;

int z = 34 ;

Local Variables in gigEm over Time

int c = 5 ; 1 ; } Deallocated on the stack by the compiler once funtion is done

int d = 4 ; 10 ;

int temp = 40 ; 41 ;

← Returned to main (stored in y)

Local Variables in first howdy call over time

int a = 5 ; 1 ; } Deallocated on the stack by the compiler once function is done

int b = 10 ; 30 ;

int temp = 40 ;

← Returned to gigEm (stored in temp)

Local Variables in second howdy call over time

int a = 41 ; 10 ; } Deallocated on the stack by the compiler when function is done.

int b = 5 ; 15 ;

int temp = 34 ;

← Returned to main (stored in z)