REPORT

<u>5 results of different values of a, b, n:</u>

When a = 13 , b = 17 , n = 21
      Value of (a^b)%n = 13
The final result in gdb (using display command) when given the above inputs of a, b, n :
1: $rax = 60   # Sys call on exit
2: $r8 = 1   # Stores a (modified after operations performed)
3: $r9 = 0   # Stores b (modified after operations performed)
4: $r10 = 21   # Stores n
5: $r11 = 13   # Final result in %r11

When a = 0 , b = 0 , n = 1
      Value of (a^b)%n = 1
The final result in gdb (using display command) when given the above inputs of a, b, n :
1: $rax = 60   # Sys call on exit
2: $r8 = 0   # Stores a (modified after operations performed)
3: $r9 = 0   # Stores b (modified after operations performed)
4: $r10 = 1   # Stores n
5: $r11 = 1   # Final result in %r11

When a = 145 , b = 273 , n = 639
      Value of (a^b)%n = 289
The final result in gdb (using display command) when given the above inputs of a, b, n :
1: $rax = 60   # Sys call on exit
2: $r8 = 217   # Stores a (modified after operations performed)
3: $r9 = 0   # Stores b (modified after operations performed)
4: $r10 = 639   # Stores n
5: $r11 = 289   # Final result in %r11

When a = 2001 , b = 2002 , n = 2003
      Value of (a^b)%n = 1
The final result in gdb (using display command) when given the above inputs of a, b, n :
1: $rax = 60   # Sys call on exit
2: $r8 = 1936   # Stores a (modified after operations performed)
3: $r9 = 0   # Stores b (modified after operations performed)
4: $r10 = 2003   # Stores n
5: $r11 = 1   # Final result in %r11

When a = 100 , b = 100 , n = 100
      Value of (a^b)%n = 0
The final result in gdb (using display command) when given the above inputs of a, b, n :
1: $rax = 60   # Sys call on exit
2: $r8 = 0   # Stores a (modified after operations performed)
3: $r9 = 0   # Stores b (modified after operations performed)
4: $r10 = 100   # Stores n
5: $r11 = 0   # Final result in %r11