number <- String user input converted to Int 1

IS\_PRIME(num, test <- number)

If num ≤ 2 OR test = 1 { 1

Return TRUE 1

} Else If num mod test = 0 { 1

Return IS\_PRIME(num, test-1) n

}

Return FALSE 1

}

PRINT IS\_PRIME(number) 1

**Runtime bound**: f(n) = 6 + n

**Complexity:** O(n)

**Note**: if a specifically large integer value is entered, the program returns a recursion error in the stack, as the language, in which the code is implemented, has a recursion limit. The try-except statement resolves this by return False by default, if a recursion error is detected.