***Advanced Search Algorithm***

get\_filename()

GET filename

RETURN filename

read\_file( filename )

data 🡨 READ filename

RETURN data

get\_keyword()

GET keyword

RETURN keyword

search\_for\_keyword( data, keyword )

length\_of\_data 🡨 len(data)

IF(length\_of\_data / 2 != keyword):

search\_for\_keyword(first\_half\_of\_data, keyword)

search\_for\_keyword(second\_half\_of\_data, keyword)

IF(length\_of\_data / 2 == keyword)

RETURN True

ELSE

RETURN False

main()

filename = get\_filename()

data = read\_file( filename )

keyword = get\_keyword()

IF search\_for\_keyword == True

PUT “The word exists!”

ELSE

PUT “The word doesn’t exist”

main()