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**LAB 12**

**Your Task:**

Please complete two questions on the topics of worms and viruses in this assessment. In the first question, you have to review a simple piece of code then identify the type of malicious code. In the second question, you will have to discuss the key idea behind the Morris Worm.

This assessment should take you approximately 3 hours to complete including reviews for preparation.

1. Explain what’s happening in this code, and identify the type of malicious code it represents:

login = ReadWord();

password = ReadWord();

if login is “iwillbebacktohack” then CompleteLogin();

if valid (login) and valid (password) then CompleteLogin(); else FailedLogin();

**That is defect of algorithm, that can access to the system or for organizations network. To able this algorithm you should have login for system. For example after disable from system, you can login to system with key word like “iwillbebacktohack”.**

2. What types of words are used in the list of passwords used by Morris Worm?

How we can see, here used only words with lower letters, non-english words, names of women, popular words.

"academia", "aerobics", "airplane", "albany",

"albatross", "albert", "alex", "alexander",

"algebra", "aliases", "alphabet", "amorphous",

"analog", "anchor", "andromache", "animals",

"answer", "anthropogenic", "anvils", "anything",

"aria", "ariadne", "arrow", "arthur",

"athena", "atmosphere", "aztecs", "azure",

"bacchus", "bailey", "banana", "bananas",

"bandit", "banks", "barber", "baritone",

"bass", "bassoon", "batman", "beater",

"beauty", "beethoven", "beloved", "benz",

"beowulf", "berkeley", "berliner", "beryl",

"beverly", "bicameral", "brenda", "brian",

"bridget", "broadway", "bumbling", "burgess",

"campanile", "cantor", "cardinal", "carmen",

"carolina", "caroline", "cascades", "castle",

"cayuga", "celtics", "cerulean", "change",

"charles", "charming", "charon", "chester",

"cigar", "classic", "clusters", "coffee",

"coke", "collins", "commrades", "computer",

"condo", "cookie", "cooper", "cornelius",

"couscous", "creation", "creosote", "cretin",

"daemon", "dancer", "daniel", "danny",

"dave", "december", "defoe", "deluge",

"desperate", "develop", "dieter", "digital",

"discovery", "disney", "drought", "duncan",

"eager", "easier", "edges", "edinburgh",

"edwin", "edwina", "egghead", "eiderdown",

"eileen", "einstein", "elephant", "elizabeth",

"ellen", "emerald", "engine", "engineer",

"enterprise", "enzyme", "ersatz", "establish",

"estate", "euclid", "evelyn", "extension",

"fairway", "felicia", "fender", "fermat",

"fidelity", "finite", "fishers", "flakes",

"float", "flower", "flowers", "foolproof",

"football", "foresight", "format", "forsythe",

"fourier", "fred", "friend", "frighten",

"fungible", "gabriel", "gardner", "garfield",

"gauss", "george", "gertrude", "ginger",

"glacier", "golfer", "gorgeous", "gorges",

"gosling", "gouge", "graham", "gryphon",

"guest", "guitar", "gumption", "guntis",

"hacker", "hamlet", "handily", "happening",

"harmony", "harold", "harvey", "hebrides",

"heinlein", "hello", "help", "herbert",

"hiawatha", "hibernia", "honey", "horse",

"horus", "hutchins", "imbroglio", "imperial",

"include", "ingres", "inna", "innocuous",

"irishman", "isis", "japan", "jessica",

"jester", "jixian", "johnny", "joseph",

"joshua", "judith", "juggle", "julia",

"kathleen", "kermit", "kernel", "kirkland",

"knight", "ladle", "lambda", "lamination",

"larkin", "larry", "lazarus", "lebesgue",

"leland", "leroy", "lewis", "light",

"lisa", "louis", "lynne", "macintosh",

"mack", "maggot", "magic", "malcolm",

"mark", "markus", "marty", "marvin",

"master", "maurice", "mellon", "merlin",

"mets", "michael", "michelle", "mike",

"minimum", "minsky", "moguls", "moose",

"morley", "mozart", "nancy", "napoleon",

"nepenthe", "ness", "network", "newton",

"next", "noxious", "nutrition", "nyquist",

"oceanography", "ocelot", "olivetti", "olivia",

"oracle", "orca", "orwell", "osiris",

"outlaw", "oxford", "pacific", "painless",

"pakistan", "papers", "password", "patricia",

"penguin", "peoria", "percolate", "persimmon",

"persona", "pete", "peter", "philip",

"phoenix", "pierre", "pizza", "plover",

"plymouth", "polynomial", "pondering", "pork",

"poster", "praise", "precious", "prelude",

"prince", "princeton", "protect", "protozoa",

"pumpkin", "puneet", "puppet", "rabbit",

"rachmaninoff", "rainbow", "raindrop", "raleigh",

"random", "rascal", "really", "rebecca",

"remote", "rick", "ripple", "robotics",

"rochester", "rolex", "romano", "ronald",

"rosebud", "rosemary", "roses", "ruben",

"rules", "ruth", "saxon", "scamper",

"scheme", "scott", "scotty", "secret",

"sensor", "serenity", "sharks", "sharon",

"sheffield", "sheldon", "shiva", "shivers",

"shuttle", "signature", "simon", "simple",

"singer", "single", "smile", "smiles",

"smooch", "smother", "snatch", "snoopy",

"soap", "socrates", "sossina", "sparrows",

"spit", "spring", "springer", "squires",

"strangle", "stratford", "stuttgart", "subway",

"success", "summer", "super", "superstage",

"support", "supported", "surfer", "suzanne",

"swearer", "symmetry", "tangerine", "tape",

"target", "tarragon", "taylor", "telephone",

"temptation", "thailand", "tiger", "toggle",

"tomato", "topography", "tortoise", "toyota",

"trails", "trivial", "trombone", "tubas",

"tuttle", "umesh", "unhappy", "unicorn",

"unknown", "urchin", "utility", "vasant",

"vertigo", "vicky", "village", "virginia",

"warren", "water", "weenie", "whatnot",

"whiting", "whitney", "will", "william",

"williamsburg", "willie", "winston", "wisconsin",

"wizard", "wombat", "woodwind", "wormwood",

"yacov", "yang", "yellowstone", "yosemite",

"zimmerman",