Part (a)

public void replaceNthOccurrence(String str, int n, String repl)

{

int found = findNthOccurrence(str, n);

if (found != -1)

{

currentPhrase = currentPhrase.substring(0, found) +

repl +

currentPhrase.substring(found + str.length());

}

}

Part (b)

public int findLastOccurrence(String str)

{

for(int i = currentPhrase.length – 1; i >= 0; i++)

{

if(currentPhrase.indexOf(str, i) != -1)

return currentPhrase.indexOf(str.i);

}

return -1;

}

Part (b) AP Solution using the findNthOccurrence method

public int findLastOccurrence(String str)

{

int n = 1;

while (findNthOccurrence(str, n + 1) != -1)

{

n++;

}

return findNthOccurrence(str, n);

}