COEN 10 – MIDTERM 2

11/6/15

1. (20/20 points) Write the code to swap the numbers in array x, so that for every three elements, the numbers are exchanged as follows: x[i]->x[i+1],x[i+1]->x[i+2],x[i+2]->x[i]. for example: x[0]->x[1], x[1]->x[2], x[2]->x[0] then x[3]->x[4], x[4]->x[5], x[5]->x[3], and so on. Assume the size of array is given by variable size and is a multiple of 3.

int temp=0;

int i;

int x;

for(i=0;i<size;i+=3)

{

temp=x[i+2];

x[i+2]=x[i+1];

x[i+1]=x[i];

x[i]=temp;

}

1. (14/20 points) Write the code to copy str1 to str2 backwards.

int i;

int j;

len=strlen(str1);

for(i=0,j=len-1;i<len;i++,j--)

{

str2[i]=str1[j];

}

str2[i]='\0';

1. (16/20 points) Write the code to output “yes” if all the characters in string str are lowercase and “no” if at least one is not. (To get full credit, your code needs to be efficient.)

i=0;

while(str[i]!='\0')

{

if(str[i]<'a' || str[i]>'z')

{

printf("No\n");

break;

}

i++;

}

if(str[i]=='\0')

printf("yes\n");

