

Homework #2

Due Date: **02/10/2020** (11:59 PM)**Note:** This assignment **MUST** be uploaded on Blackboard as a single file (**pdf** document)

| | |
|--|--|
| <p>1. What are the outputs of the following code fragment?</p> <pre> a=5; b=-3; c=4; d=7; x=(a>b) && (c>=d); y=(~(a>d)) (b<=c); z=(a>b) && (b>c) && (c>d); w=(a<=b) (b>d) (c<=b); disp([x,y,z,w]); </pre> | <p>2. What are the outputs of the following code fragment?</p> <pre> a=4; b=3; c=-2; x=a+c/2+b; y=a+c/(2+b); z=(a+c)/2+b; w=(a+c)/(2+b); disp([x,y,z,w]); </pre> |
| <p>3. What are the outputs of the following code fragment?</p> <pre> x=-3 ; y=8; while (x<4 && y>0) y=y-2; x=x+3; end disp([x,y]); </pre> | <p>4. What is the output of the following code fragment?</p> <pre> f=1; num=6; for m=num: -1 : 1 f=f*m; end disp(f); </pre> |
| <p>5. What is the output of the following code fragment?</p> <pre> s=0; V=[3,-2,5,4,7,-1,13]; for m=1:length(V) s=s+V(m); end disp(s); </pre> | <p>6. What is the output of the following code fragment if the user entered: (a) 1679 and (b) 32 ?</p> <pre> m=0; num=input('Enter a positive number= '); while(num>0) num =fix(num/10); m=m+1; end disp(m); </pre> |
| <p>7. What is the output of the following code fragment?</p> <pre> A=[-5,2,11,9,-3,6,8] ; size=length(A); h=fix(size/2); for m=1:h var=A(m); A(m)=A(size-m+1); A(size-m+1)=var; end disp(A); </pre> | <p>8. What is the output of the following code fragment?</p> <pre> B=[0,-2,4 ; 1,2,5 ; 12,-5,3 ; 8,-7,11]; for m=1:3 for n=1:4 if((m==n) (m+n==4)) B(n,m) = -1; end end end disp(B) </pre> |

| | |
|---|---|
| <p>9. What are the outputs of the following code fragment?</p> <pre> num=[-3,12,2,5,-11,7]; temp1=num(1); temp2=num(1); for k=1:6 if(temp1<=num(k)) temp1=num(k); elseif(temp2>=num(k)) temp2=num(k); end end disp([temp1, temp2]); </pre> | <p>10. What is the output of the following code fragment?</p> <pre> A=[0,5,4,2 ,7,-11,9]; B=[-5,1,0,-3,6,1,4]; col=7; for k=1:col C(k)=A(k)+B(col-k+1); end disp(C); </pre> |
| <p>11. What are the outputs of the following code fragment?</p> <pre> a=-5; b=8; if(a>=b) tmp=b; b=a; a=tmp; else tmp=a; a=b; b=tmp; end disp([a, b]); </pre> | <p>12. What is the output of the following code fragment?</p> <pre> A=[-3,1,1 ; 5,-2,6 ; -7,8,-4]; Nrows=3; Mcolumns=3; for m=1: Mcolumns for n=1: Nrows temp=m+n; ratio=fix(temp/2); diff=temp-2*ratio; if(diff~=0) A(n,m)=-A(n,m); end end end disp(A); </pre> |