



[1] Write the output of the given MATLAB commands:

- (a) `fix(-4.7)`, `floor(-4.7)`, `ceil(-4.7)`, `round(-4.7)`
(b) `A=(2:12)`; `A(13:15)=[7 8 9]`, `A(3:4:end)`, `A(5)=6`, `A(6:8)=[6 6 6]`, `A(17)=9`, `A([10 12 15])=[]`, `A([3 5 6])=[3 1 6]`
(c) `B=[1 4 2; 3 8 5; 6 9 7]`; `b=B(3:-1:1,1:3)`, `c=[b b(:,[3 2])]`, `d=c(1:3,[1 2 4])`, `d'`, `fliplr(d)`, `rot90(d,3)`
(d) `a=5:-2:2`; `D= repmat(a,3,2)`, `E=2.^D`, `E(3,2:4)=[2 6 10]`, `size(E)`, `length(E)`, `E(:,2)=[]`, `E(1:3,2:1)=9`,
`[i,j]=find((E>10)|(E<=6))`, `[M,N]=find((E>=10)&(E~=32))`, `sub2ind(size(E),M,N)`, `F(1:6)=E(:,2:3)`

[2] What are the function of the following MATLAB commands:

- (a) `randint`, `clear` (b) `load`, `whos` (c) `dbtype`, `rmdir` (d) `format short g`, `format long eng` (e) `doc`, `pwd`



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(a) fix(-4.7), floor(-4.7), ceil(-4.7), round(-4.7)

ans =
-4

ans =
-5

ans =
-4

ans =
-5

(b) A=(2:12); A(13:15)=[7 8 9], A(3:4:end), A(5)=6, A(6:8)=[6 6 6], A(17)=9, A([10 12 15])=[], A([3 5 6])=[3 1 6]

A =
2 3 4 5 6 7 8 9 10 11 12 0 7 8 9

ans =
4 8 12 9

A =
2 3 4 5 6 7 8 9 10 11 12 0 7 8 9

A =
2 3 4 5 6 6 6 6 10 11 12 0 7 8 9

A =
2 3 4 5 6 6 6 6 10 11 12 0 7 8 9 0 9

A =
2 3 4 5 6 6 6 6 10 12 7 8 0 9

A =
2 3 3 5 1 6 6 6 10 12 7 8 0 9

(c) B=[1 4 2; 3 8 5; 6 9 7]; b=B(3:-1:1,1:3), c=[b b(:,[3 2])], d=c(1:3,[1 2 4]), d',
fliplr(d), rot90(d,3)

b =
6 9 7
3 8 5
1 4 2

```
c =  
 6 9 7 7 9  
 3 8 5 5 8  
 1 4 2 2 4
```

```
d =  
 6 9 7  
 3 8 5  
 1 4 2
```

```
ans =  
 6 3 1  
 9 8 4  
 7 5 2
```

```
ans =  
 7 9 6  
 5 8 3  
 2 4 1
```

```
ans =  
 1 3 6  
 4 8 9  
 2 5 7
```

(d) **a=5:-2:2; D= repmat(a,3,2), E=2.^D, E(3,2:4)=[2 6 10], size(E), length(E), E(:,2)=[], E(1:3,2:1)=9, [i,j]=find((E>10)|(E<=6)), [M,N]=find((E>=10)&(E~=32)), sub2ind(size(E),M,N), F(1:6)=E(:,2:3))**

```
D =  
 5 3 5 3  
 5 3 5 3  
 5 3 5 3
```

```
E =  
 32 8 32 8  
 32 8 32 8  
 32 8 32 8
```

```
E =  
 32 8 32 8  
 32 8 32 8  
 32 2 6 10
```

```
ans =  
 3 4
```

```
ans =  
 4
```

E =
32 32 8
32 32 8
32 6 10

E =
32 32 8
32 32 8
32 6 10

i =
1
2
3
1
2
3

j =
1
1
1
2
2
2

M =
3

N =
3

ans =
9

F =
32 32 6 8 8 10