

### I. Easy

1. B is before C

#### A is after C

2. D is before E

G is after D

F is before D

- 3. H is before I
  - K is after H
  - J is before L
  - J is before H



## I. Easy - Answer Key

1. B is before C<br/>A is after CB-C<br/>C-AB-C-A2. D is before E<br/>G is after D<br/>F is before DD-E<br/>D-G<br/>F-D $F-D < E_G^E$ 

- **3.** H is before I K is after H
  - J is before L
  - J is before H

H-I H-K J-L J-H





# II. Medium

- 4. O is before N
  - Q is before O
  - P is before R
  - P is after M
  - O is after M

- 5. T is before S
  - W is after U
  - Y is after S
  - Z is before W
  - X is before S
  - Y is before W



# II. Medium - Answer Key

4. O is before N

Q is before O

P is before R

P is after M

O is after M

O-N
Q-0
P-R
M-P
M-O



5.	T is before S
	W is after U
	Y is after S
	Z is before W
	X is before S

Y is before W

T-S U-W S-Y Z-W X-S Y-W





# III. Hard

6. D is before F	C is after A
J is before A	J is after B
E is after G	D is before G
B is after I	H is before J
F is before H	F is before B

7. L is before Y	P is after T
Z is before M	Z is after X
S is before W	L is after T
X is before U	Q is before N
R is before T	Q is after M
Q is after Y	Z is after W
K is before L	L is after S



# III. Hard - Answer Key

6. D is before F	
J is before A	
E is after G	
B is after I	
F is before H	









- 7. L is before Y
  - Z is before M
  - S is before W
  - X is before U
  - R is before T
  - O is often V
  - Q is after Y
  - K is before L

L-Y	
Z-M	
S-W	
X-U	
R-T	
Y-Q	
K-L	

P is after 1
Z is after X
L is after T
Q is before N
Q is after M
Z is after W

L is after S

T-P X-Z T-L Q-N M-Q W-ZS-L



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## IV. Extreme

8. P is before B	F is before M
O is after G	F is before R
M is before A	C is after L
Y is after A	E is before S
K is after J	Z is after V
l is before S	Q is after B
W is before T	M is after Q
R is after D	H is after T
V is after S	S is before P

D is before H

X is before S

O is after Z

G is before L

S is after N

G is after P

B is after R

L is before Y

A is before J



### IV. Extreme - Answer Key

8. P is before B
O is after G
M is before A
Y is after A
K is after J
I is before S

W is before T

R is after D

V is after S

P-B	F
G-O	F
M-A	(
A-Y	E
J-K	Z
I-S	(
W-T	Ν
D-R	ŀ
S-V	0

F is before M F is before R C is after L E is before S Z is after V Q is after B M is after Q H is after T S is before P

F-M
F-R
L-C
E-S
V-Z
B-Q
Q-M
T-H
S-P

D is before H X is before S O is after Z G is before L S is after N G is after P B is after R L is before Y

A is before J

D-H X-S Z-O G-L N-S P-G R-B L-Y A-J

