

Exercise 1:

The following tables show phone calls made by a group of ten people over a period of seven days:

CALLER	RECEIVER	LENGTH (MINS)
A	E	8
B	H	12
C	H	13
D	F	9
E	G	14
F	J	6
G	A	15
H	B	11
I	G	12
J	D	10
A	G	9
B	C	10
C	B	10
D	J	16
E	I	8

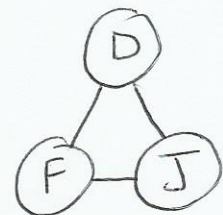
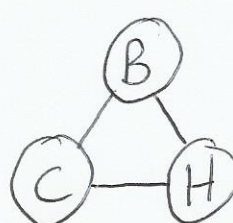
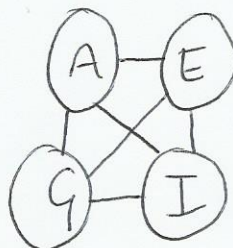
CALLER	RECEIVER	LENGTH (MINS)
F	J	14
G	A	12
H	B	12
I	A	19
J	F	15
A	I	7
B	H	14
C	B	13
D	F	14
E	A	17
F	D	12
G	I	11
H	B	17
I	E	15
J	F	13

Create a visualisation of this data that allows you to identify

- any subgroups within the subjects
- the total amount of time each pair of subjects spent talking to each other
- what proportion of time each subject was the caller, not the receiver.

A✓ E8 G9 I7
 B✓ H12 C10 H14
 C✓ H13 B10 B13
 D✓ F9 J16 F14
 E✓ G14 I8 A17
 F✓ J6 J14 D12
 G✓ A15 A12 I11
 H✓ B11 B12 B17
 I✓ G12 A19 E15
 J✓ D10 F13

A E G I (Red ticks)
 B H C (Blue ticks)
 D F J (Green ticks)

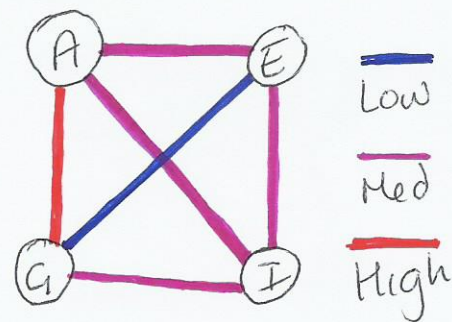
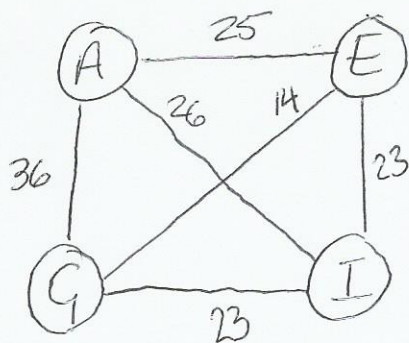


Total time

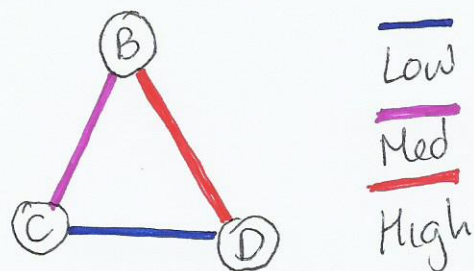
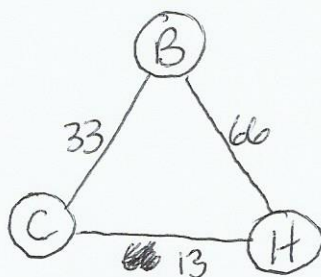
WITH NUMBERS

WITHOUT NUMBERS

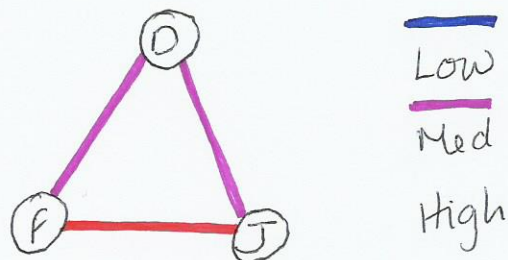
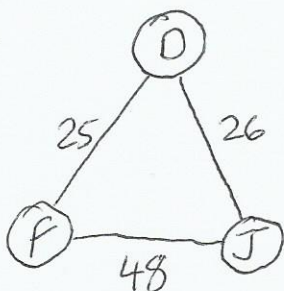
	A	E	G	I
A	~~8~~	8	9	7
E	17	~~14~~	14	8
G	15+12	$\emptyset$	~~11~~	11
I	19	15	12	~~11~~



	B	C	H
B	~~10~~	10	12+14
C	10+13	~~13~~	13
H	11+12 +17	$\emptyset$	~~13~~



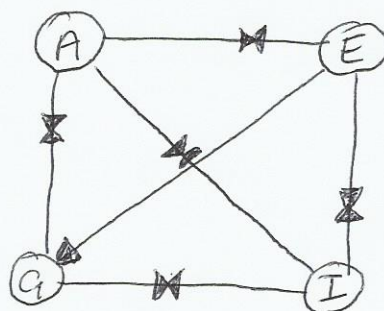
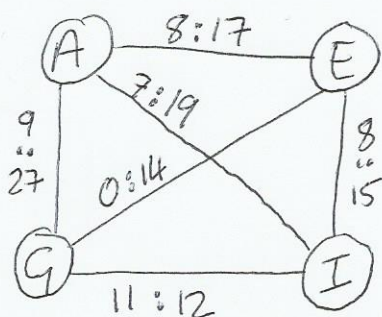
	D	F	J
D	~~9~~	9+14	16
F	12	~~6~~	6+14
J	10	15+13	~~11~~



Proportions

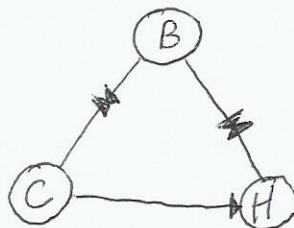
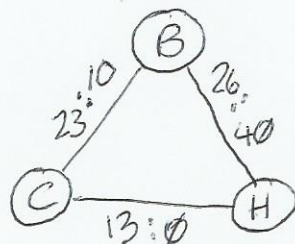
Receiver

	A	E	G	I
A	~~8~~	8	9	7
E	17	~~14~~	14	8
G	27	$\emptyset$	~~11~~	11
I	19	15	12	~~11~~



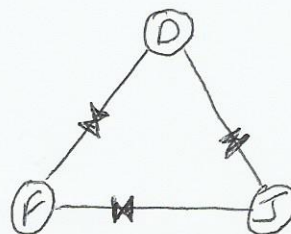
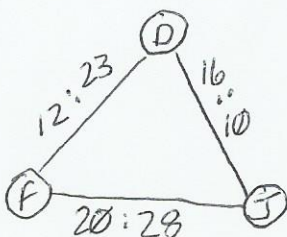
Receiver

	B	C	H
B	~~10~~	10	26
C	23	~~13~~	13
H	40	$\emptyset$	~~13~~



Receiver

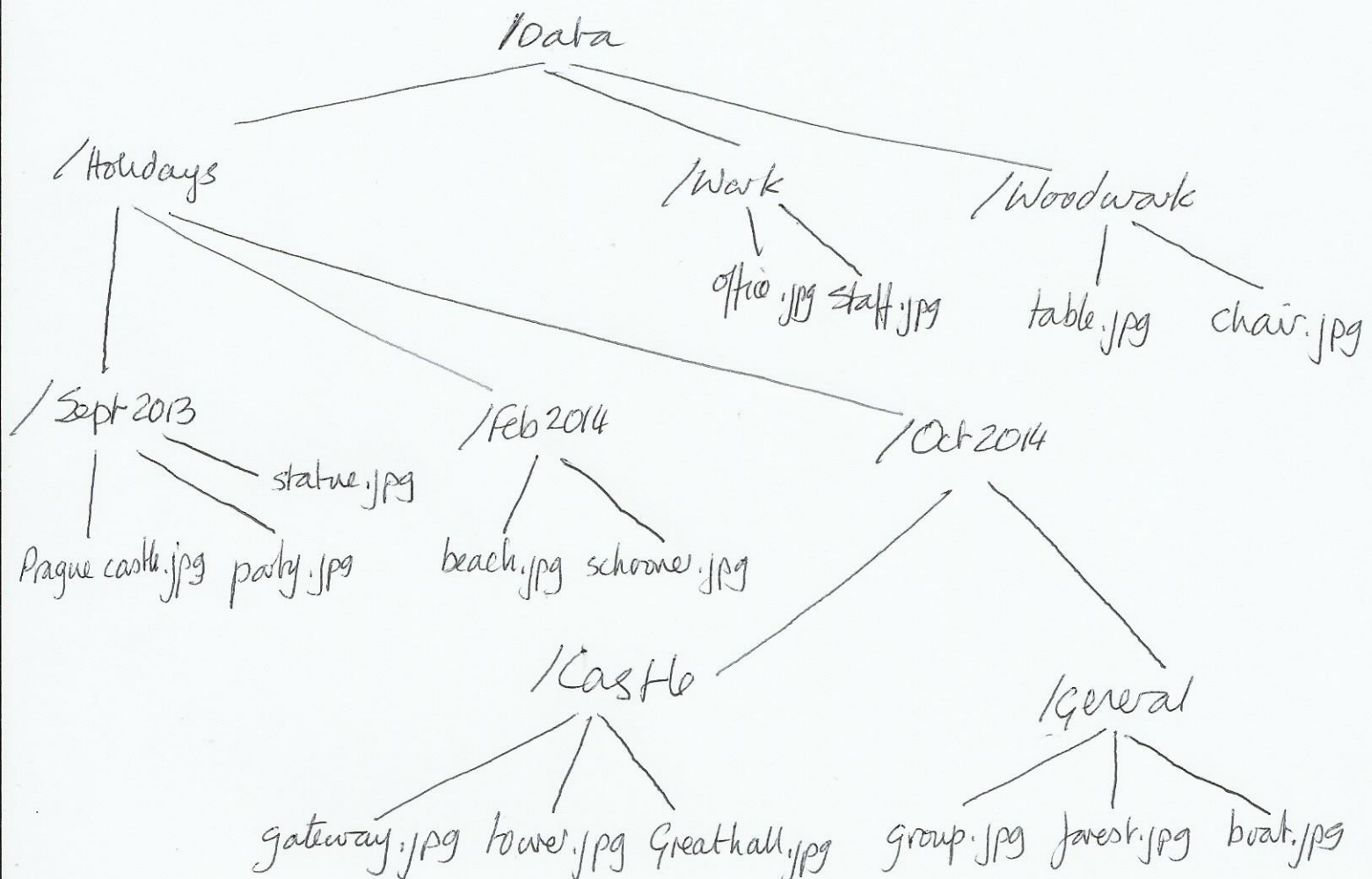
	D	F	J
D	~~9~~	23	16
F	12	~~6~~	20
J	10	28	~~11~~



Exercise 2

Create a tree and a tree map to show the following directory structure:

/data	/Holidays	/Work
Holidays	Sept2013	staff.jpg
Work	Feb2014	office.jpg
Woodwork	Oct2014	
/Woodwork	/Sept2013	/Feb2014
Table.jpg	PragueCastle.jpg	beach1.jpg
Chair.jpg	party.jpg	schooner.jpg
	Statue.jpg	
/Oct2014	/Castle	/General
Castle	gateway.jpg	group.jpg
General	tower.jpg	forest.jpg
	Greathall.jpg	boat.jpg



/Data

/Data

/Holidays

/Work

/Woodwork

/Data

/Holidays

/Oct 2014

/Sept 2013

/Feb 2014

/Work

office.jpg

staff.jpg

/Woodwork

table.jpg

chair.jpg

/Data

/Holidays

/Oct 2014

/castle

/general

/Sept 2013

Prague Castle.jpg

party.jpg

statue.jpg

/Feb 2014

beach.jpg

schooner.jpg

/Work

office.jpg

staff.jpg

/Woodwork

table.jpg

chair.jpg

Data

1/10th days

10 Oct 2014

1/castle

gateway.jpg

tower.jpg

Great hall.jpg

1/general

Group.jpg

Forest.jpg

boat.jpg

1/sept 2013

Prague Castle.jpg

party.jpg

statue.jpg

1/Feb 2014

beach.jpg

schooner.jpg

1/Work

office.jpg

staff.jpg

1/Woodwork

table.jpg

chair.jpg