STACK

| OysterCard | card1 |
| ◇ | |

| Travelcard | tcard |
| ◇ | |

| OysterCard | card2 |
| ◇ | |

HEAP //Point1

| boolean | autotopup |
| true | |

| boolean | registered |
| false | |

| double | amount |
| 50.0 | |

| Travelcard | travelcardAttached |
| ◇ null | |

| String | type |
| ◇ | → "week" |

| int | zone |
| 2 | |

| boolean | autotopup |
| false | |

| boolean | registered |
| true | |

| double | amount |
| 6.3 | |

| Travelcard | travelcardAttached |
| ◇ | |

STACK

| int | zone |
| 2 | |

| double | fare |
| 2.3 | |

| double | cost |
| 0.0 | |

| double | fare |
| 2.3 | |

| OysterCard | card |
| ◇ | |

| int | zone |
| 2 | |

| OysterCard | card1 |
| ◇ | |

| Travelcard | tcard |
| ◇ | |

| OysterCard | card2 |
| ◇ | |

HEAP //card1 first journey

| boolean | autotopup |
| true | |

| boolean | registered |
| false | |

| double | amount |
| 47.7 | |

| Travelcard | travelcardAttached |
| ◇ null | |

| String | type |
| ◇ | → "week" |

| int | zone |
| 2 | |

| boolean | autotopup |
| false | |

| boolean | registered |
| true | |

| double | amount |
| 6.3 | |

| Travelcard | travelcardAttached |
| ◇ | |

STACK

int	zone
6	

double	fare
6.2	

double	cost
0.0	

double	fare
6.2	

OysterCard	card
◇	

int	zone
6	

OysterCard	card1
◇	

Travelcard	tcard
◇	

OysterCard	card2
◇	

HEAP //card1 second journey

boolean	autotopup
true	

boolean	registered
false	

double	amount
41.5	

Travelcard	travelcardAttached
null	

String	type
◇	

int	zone
2	

"week"

boolean	autotopup
false	

boolean	registered
true	

double	amount
6.3	

Travelcard	travelcardAttached
◇	

STACK

int	zone
4	

double	fare
4.6	

double	cost
0.0	

double	fare
4.6	

OysterCard	card
◇	

int	zone
4	

OysterCard	card1
◇	

Travelcard	tcard
◇	

OysterCard	card2
◇	

HEAP //card2 first journey

boolean	autotopup
true	

boolean	registered
false	

double	amount
41.5	

Travelcard	travelcardAttached
null	

String	type
◇	

int	zone
2	

"week"

boolean	autotopup
false	

boolean	registered
true	

double	amount
1.7	

Travelcard	travelcardAttached
◇	

STACK

int	zone
5	

double	fare
6.2	

double	cost
0.0	

double	fare
6.2	

OysterCard	card
◇	

int	zone
5	

OysterCard	card1
◇	

Travelcard	tcard
◇	

OysterCard	card2
◇	

HEAP //card2 second journey

boolean	autotopup
true	

boolean	registered
false	

double	amount
41.5	

Travelcard	travelcardAttached
◇	null

String	type
◇	"week"

int	zone
2	

boolean	autotopup
false	

boolean	registered
true	

double	amount
1.7	

Travelcard	travelcardAttached
◇	

STACK

OysterCard	card1
◇	

Travelcard	tcard
◇	

OysterCard	card2
◇	

HEAP //Point 2

boolean	autotopup
true	

boolean	registered
false	

double	amount
41.5	

Travelcard	travelcardAttached
◇	null

String	type
◇	"week"

int	zone
2	

boolean	autotopup
false	

boolean	registered
true	

double	amount
1.7	

Travelcard	travelcardAttached
◇	

CW1 - Exercise 4 Page 3

Name: Damanjit Singh
Course: MSc Computer Science (p/t year 1)