Q1

	A	D	D	C	C	B	A	B	E	F	A	A	D	D	C	F	A	C	D	D	E	H	B	B	D	B
0	A						+		E		A	+									E					
1						B		+		F													B	+		+
2			C	+	+										+		+									
3		D	+													+	+		+	+		H			D	

	E	C	B	B	E	D	B	B	D	G	H	D	B	C
0	+				+									
1			+	+			+	+				+		
2		+	-			;				G				C
3			+	+		+		+		H	D			

Total his = 25 Total = 40
Hit Ratio = 25/40 = 0.625

Q2 LRU

	A	D	D	C	C	B	A	B/E	F	A	A	D	D	C	C	F	A	C	D	D	E	H	B	B
0	A						+			+	+						+							
1						B		+					D	+					+	+			H	
2				C	+				F							+					E		B	+
3		D	+					E						C			+							

	D	B	E	C	B	B	E	D	B	B	D	G	H	D	B	C
0				C								G				
1	+					+			+		+					
2			+				+						H		C	
3	+			+	+				+	+				+		

total hit = 25   total memory = 40
hit radio = 25/40 = 62.5%

LFU

	A	D	D	C	C	B	A	B/E	F	A	A	D	D	C	C	F	A	C	D	D	E	H	B	B
0	A						+			+	+						+							
1						B		+ E F								+								
2				C	+										+			+						
3		D	+							+	+								+	+	E	H	B	+

	D	B	E	C	B	B	E	D	B	B	D	G	H	D	B	C
0																
1																
2				+	B	+			+	+				+	C	
3	D	B	E				+	D			+	G	H	D		

total hit = 22
total memory = 40
22/40 = 55% (hit radio)

Q2   FiFO

	A	O	D	C	C	B	A	BE	F	A	A	D	D	C	C	F	A	C	D	D	E	H	B	B
0	A					+		E						C			+							
1					B		t					D	+						+	+			B	+
2				C	+					A	+					+						H		
3		D	+					F								+					E			

	D	B	E	C	B	B	E	D	B	B	D	G	H	D	B	C								
0	D						+			+			H											
1		+			+	+			+	+		G			C									
2							E							B										
3			+	C							D													

total hit = 20   total memory = 40
hit radio = 20/40 = 50%

Q 3 LFU

	A	D	D	C	C	B	A	B/E	F	A	A	D	D	C	C	F	A	C	D	D	E	H	B	B
0	A							+		+	+						+							
1					B		+	E	F						+									
2			C	+								+				+					+	+	E	H	B	+
3		D	+							+	+								+	+	E	H	B	+

	D	B	E	C	B	B	E	D	B	B	D	G	H	D	B	C
0																
1																
2				+	B	+			+	+				+	C	
3	D	B	E				+	D			+	G	H	D		

total hit = 22   total memory = 40

hit radio = 22/40 = 55%

(4) the best radio is 62.5% which is LRU strategies.

Q 3 FIFO

	A	D	D	C	C	B	A	B	E	F	A	A	D	D	C	F	A	C	D	D	E	H	B	B	D	B	E	C
0	A						+		E						C		+								D			
1				B		+						D	+					+	+			B	+			+		
2			C	+						A	+				+				H							
3		D	+						F			+					+			E				+	C

	B	B	E	D	B	B	D	G	H	D	B	C
0	B	B	E	D	B	B	D	G	H	D	B	C
1	+	+		+	+			G				C
2			E							B		
3									H	D		

total hit = 22   total memory = 40

hit radio = 22/40 = 55%

Q3

LRU

	A	D	D	C	C	B	A	B	E	F	A	A	D	D		C	F	A	C	D	D	E	H	B	B
0	A						+				+	+				⧄	·	+						H	
1						B		+	F				D	+	⧄					+	+				
2				C	+				E						⧄		+					E			
3		D	+												⧄	C				+				B	+

	D	B	E	C	B	B	E	D	B	B	D	G	H	D	B	C									
0	D	B	E	C	B	B	E	D	B	B	D	G	H	D	B	C									
				C								G													
1	+						+			+			+												
2			+			+							H		C										
3	+			+	+			+	+					+											

total hit = 25   total memory = 40

hit radio = 25/40 = 62.5%