Q4 _ answers. [pdf, md]

a) we know that in 1 = 1, 2, 3, 4 and that in 2 = 6, 6 : the function livec (in1, in 2) should be equivalent to

[Irec (31, 2, 3, 43, 5,5)]

which gives, Hrec({5,6}, {1,2,3})

and $\{5,6\} \rightarrow \text{next} = \text{Ilrec}(\{6\}, \{2,3\})$ $\Rightarrow \{1,2,3\} \rightarrow \text{next} = \text{Ilrec}(\{5\}, \{2,3\})$ $\Rightarrow \{6\} \rightarrow \text{next} = \text{Ilrec}(\{2,3\}, \text{null})$ Which give $\{2,3\}$

 $\Rightarrow \{6,2,3\}$ $\Rightarrow \{1,2,3,6,2,3\}$ $\Rightarrow \{5,6,1,2,3,6,2,3\}$ $\Rightarrow \{1,2,3,4,5,6,1,2,3,6,2,3\}$

b) Given in I = null and in 2 = 2

we know that, lirec (in1, in 2) is equivalent to streetin

lirec (null, {2})

which returns {2}