

Computer Architecture Homework 2

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${\bf Contents}$

1 Problem 2

$0 \rightarrow$	00000000
$21 \rightarrow$	00010101
$23 \rightarrow$	00010111
$35 \rightarrow$	00100011
$76 \rightarrow$	01001100
$1 \rightarrow$	00000001
$66 \rightarrow$	01000010
$80 \rightarrow$	01010000
$54 \rightarrow$	00110110
$36 \rightarrow$	00100100
$24 \rightarrow$	00011000
$23 \rightarrow$	00010111
$75 \rightarrow$	01001011
$2 \rightarrow$	00000010

address	#1	#2	#3
0	miss	hit	hit
21	miss	$_{ m hit}$	hit
23	hit	$_{ m hit}$	hit
35	miss	$_{ m hit}$	hit
76	miss	$_{ m hit}$	hit
1	hit	hit	hit
66	hit	hit	hit
80	miss	$_{ m hit}$	hit
54	miss	$_{ m hit}$	hit
36	hit	$_{ m hit}$	hit
24	hit	$_{ m hit}$	hit
23	hit	$_{ m hit}$	hit
75	hit	hit	hit
2	hit	hit	hit

$$\label{eq:miss_rate} \begin{split} \text{miss rate} &= \\ &= \frac{7}{14*3} = \frac{1}{6} \end{split}$$