9.3

(1)

$$B_1: \begin{array}{l} gen_{B_1} = \{d_1, d_2\} \\ kill_{B_1} = \{d_8, d_{10}, d_{11}\} \end{array}$$

$$B_2: \begin{array}{l} gen_{B_2} = \{d_3, d_4\} \\ kill_{B_2} = \{d_5, d_6\} \end{array}$$

$$B_3: \begin{array}{l} gen_{B_3} = \{d_5\} \\ kill_{B_3} = \{d_4, d_6\} \end{array}$$

$$B_4: \begin{array}{l} gen_{B_4} = \{d_6, d_7\} \\ kill_{B_4} = \{d_4, d_5, d_9\} \end{array}$$

$$B_5: \begin{array}{l} gen_{B5} = \{d_8, d_9\} \\ kill_{B5} = \{d_2, d_7, d_{11}\} \end{array}$$

$$B_6: \begin{array}{l} gen_{B_6} = \{d_{10}, d_{11}\} \\ kill_{B_6} = \{d_1, d_2, d_8\} \end{array}$$

块	$OUT[B]^0$	$IN[B]^1$	$OUT[B]^1$	$IN[B]^2$	$OUT[B]^2$
B_1	0000 0000 000	0000 0000 000	1100 0000 000	0000 0000 000	1100 0000 000
B_2	0000 0000 000	1100 0000 000	1111 0000 000	1111 1001 100	1111 0001 100
B_3	0000 0000 000	1111 0000 000	1110 1000 000	1111 0111 100	1110 1000 100
B_4	0000 0000 000	1110 1000 000	1110 0110 000	1110 0000 100	1110 0110 000
B_5	0000 0000 000	1111 1000 000	1011 1001 100	1111 1001 100	1011 1001 100
B_6	0000 0000 000	1011 1001 100	0011 1000 111	1011 1001 100	0011 1000 111
$EXIT$	0000 0000 000	0011 1000 111	0011 1000 111	0011 1000 111	0011 1000 111

(2)

$$B_1: \begin{array}{l} e\_gen_{B_1} = \{1, 2\} \\ e\_kill_{B_1} = \{\} \end{array}$$

$$B_2: \begin{array}{l} e\_gen_{B_2} = \{a+b, c-a\} \\ e\_kill_{B_2} = \{\} \end{array}$$

$$B_3: \begin{array}{l} e\_gen_{B_3} = \{b+d\} \\ e\_kill_{B_3} = \{\} \end{array}$$

$$B_4: \begin{array}{l} e\_gen_{B_4} = \{a+b, e+1\} \\ e\_kill_{B_4} = \{b+d\} \end{array}$$

$$B_5: \begin{array}{l} e\_gen_{B5} = \{a+b, c-a\} \\ e\_kill_{B5} = \{a+b, b+d\} \end{array}$$

$$B_6: \begin{array}{l} e\_gen_{B_6} = \{b*d, a-d\} \\ e\_kill_{B_6} = \{a+b, c-a, b+d\} \end{array}$$

块	$IN[B]$	$OUT[B]$
B_1	$\{\}$	$\{1,2\}$
B_2	$\{1,2\}$	$\{a+b, c-a, 1, 2\}$
B_3	$\{e+1, a+b, c-a, 1, 2\}$	$\{e+1, b+d, a+b, c-a, 1, 2\}$
B_4	$\{e+1, b+d, a+b, c-a, 1, 2\}$	$\{e+1, a+b, c-a, 1, 2\}$
B_5	$\{e+1, b+d, a+b, c-a, 1, 2\}$	$\{e+1, a+b, c-a, 1, 2\}$
B_6	$\{e+1, a+b, c-a, 1, 2\}$	$\{e+1, a+b, c-a, 1, 2\}$

(3)

$$
\begin{aligned}
B_1: &\quad use_{B_1} = \{\} \\
&\quad def_{B_1} = \{a, b\} \\
B_2: &\quad use_{B_2} = \{a, b\} \\
&\quad def_{B_2} = \{c, d\} \\
B_3: &\quad use_{B_3} = \{b, d\} \\
&\quad def_{B_3} = \{d\} \\
B_4: &\quad use_{B_4} = \{a, b, e\} \\
&\quad def_{B_4} = \{d, e\} \\
B_5: &\quad use_{B_5} = \{a, b, c\} \\
&\quad def_{B_5} = \{b, e\} \\
B_6: &\quad use_{B_6} = \{b, d\} \\
&\quad def_{B_6} = \{a, b\}
\end{aligned}
$$

块	$IN[B]$	$OUT[B]$
B_1	$\{\}$	$\{a, b, e\}$
B_2	$\{a, b, e\}$	$\{a, b, c, d, e\}$
B_3	$\{a, b, c, d, e\}$	$\{a, b, c, d, e\}$
B_4	$\{a, b, c, e\}$	$\{a, b, c, d, e\}$
B_5	$\{a, b, c, d\}$	$\{a, b, d, e\}$
B_6	$\{b, d\}$	$\{\}$

9.22

```
for (i = 0; i < 20; i++)
{
    int tmp = 10 * i;
    int last = 0;
    for (j = 0; j < 10; j++)
    {
        last += tmp;
        r[i][j] = last;
    }
}
```