

LAMPIRAN



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{*****  
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{* PROGRAM STRUKTUR *}  
{* *}  
{* Citra Asal *}  
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USES GRAPH,crt;  
  
type  
    warna= '1'..'4';  
  
VAR i,j,x,y,gd,gm:integer;  
    merah,biru,kelabu,hijau:byte;  
  
BEGIN  
  
gd:=detect;gm:=detect;  
initgraph(gd,gm,'');  
setgraphmode(detect);  
setbkcolor(black);  
  
putpixel(84,24,3); putpixel(85,24,3);  
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putpixel(272,27,3); putpixel(273,27,3);
putpixel(274,27,3); putpixel(275,27,3);
putpixel(276,27,3); putpixel(277,27,3);
putpixel(278,27,3); putpixel(279,27,3);
putpixel(280,27,3); putpixel(281,27,3);
putpixel(282,27,3); putpixel(283,27,3);
putpixel(284,27,3); putpixel(285,27,3);
putpixel(286,27,3); putpixel(287,27,3);
putpixel(288,27,3); putpixel(289,27,3);
putpixel(290,27,3); putpixel(291,27,3);
putpixel(292,27,3); putpixel(293,27,3);
putpixel(294,27,3); putpixel(295,27,3);
putpixel(296,27,3); putpixel(297,27,3);
```

```
putpixel(298,27,3);    putpixel(299,27,3);

putpixel(126,28,3);    putpixel(127,28,3);
putpixel(128,28,3);    putpixel(129,28,3);
putpixel(130,28,3);    putpixel(131,28,3);
putpixel(132,28,3);    putpixel(133,28,3);
putpixel(134,28,3);    putpixel(135,28,3);
putpixel(136,28,3);    putpixel(137,28,3);
putpixel(138,28,3);    putpixel(139,28,3);
putpixel(140,28,3);    putpixel(141,28,3);
putpixel(142,28,3);    putpixel(143,28,3);
putpixel(144,28,3);    putpixel(145,28,3);
putpixel(146,28,3);    putpixel(147,28,3);
putpixel(148,28,3);    putpixel(149,28,3);
putpixel(150,28,3);    putpixel(151,28,3);
putpixel(152,28,3);    putpixel(153,28,3);
putpixel(154,28,3);    putpixel(155,28,3);
putpixel(156,28,3);    putpixel(157,28,3);
putpixel(158,28,3);    putpixel(159,28,3);
putpixel(160,28,3);    putpixel(161,28,3);
putpixel(162,28,3);    putpixel(163,28,3);
putpixel(164,28,3);    putpixel(165,28,3);
putpixel(166,28,3);    putpixel(167,28,3);
putpixel(168,28,3);    putpixel(169,28,3);
putpixel(170,28,3);    putpixel(171,28,3);
putpixel(172,28,3);    putpixel(173,28,3);
putpixel(174,28,3);    putpixel(175,28,3);
putpixel(176,28,3);    putpixel(177,28,3);
putpixel(178,28,3);    putpixel(179,28,3);
putpixel(180,28,3);    putpixel(181,28,3);
putpixel(182,28,3);    putpixel(183,28,3);
putpixel(184,28,3);    putpixel(185,28,3);
putpixel(186,28,3);    putpixel(187,28,3);
putpixel(188,28,3);    putpixel(189,28,3);
putpixel(190,28,3);    putpixel(191,28,3);
putpixel(192,28,3);    putpixel(193,28,3);
putpixel(194,28,3);    putpixel(195,28,3);
putpixel(196,28,3);    putpixel(197,28,3);
putpixel(198,28,3);    putpixel(199,28,3);
putpixel(200,28,3);    putpixel(201,28,3);
putpixel(202,28,3);    putpixel(203,28,3);
putpixel(204,28,3);    putpixel(205,28,3);
putpixel(206,28,3);    putpixel(207,28,3);
putpixel(208,28,3);    putpixel(209,28,3);
putpixel(210,28,3);    putpixel(211,28,3);
putpixel(212,28,3);    putpixel(213,28,3);
putpixel(214,28,3);    putpixel(215,28,3);
putpixel(216,28,3);    putpixel(217,28,3);
putpixel(218,28,3);    putpixel(219,28,3);
putpixel(220,28,3);    putpixel(221,28,3);
putpixel(222,28,3);    putpixel(223,28,3);
putpixel(224,28,3);    putpixel(225,28,3);
putpixel(216,28,3);    putpixel(217,28,3);
putpixel(218,28,3);    putpixel(219,28,3);
```

```
putpixel(220,28,3); putpixel(221,28,3);
putpixel(222,28,3); putpixel(223,28,3);
putpixel(224,28,3); putpixel(225,28,3);
putpixel(226,28,3); putpixel(227,28,3);
putpixel(228,28,3); putpixel(229,28,3);
putpixel(230,28,3); putpixel(231,28,3);
putpixel(232,28,3); putpixel(233,28,3);
putpixel(234,28,3); putpixel(235,28,3);
putpixel(236,28,3); putpixel(237,28,3);
putpixel(238,28,3); putpixel(239,28,3);
putpixel(240,28,3); putpixel(241,28,3);
putpixel(242,28,3); putpixel(243,28,3);
putpixel(244,28,3); putpixel(245,28,3);
putpixel(246,28,3); putpixel(247,28,3);
putpixel(248,28,3); putpixel(249,28,3);
putpixel(250,28,3); putpixel(251,28,3);
putpixel(252,28,3); putpixel(253,28,3);
putpixel(254,28,3); putpixel(255,28,3);
putpixel(256,28,3); putpixel(257,28,3);
putpixel(258,28,3); putpixel(259,28,3);
putpixel(260,28,3); putpixel(261,28,3);
putpixel(262,28,3); putpixel(263,28,3);
putpixel(264,28,3); putpixel(265,28,3);
putpixel(266,28,3); putpixel(267,28,3);
putpixel(268,28,3); putpixel(269,28,3);
putpixel(270,28,3); putpixel(271,28,3);
putpixel(272,28,3); putpixel(273,28,3);
putpixel(274,28,3); putpixel(275,28,3);
putpixel(276,28,3); putpixel(277,28,3);
putpixel(278,28,3); putpixel(279,28,3);
putpixel(280,28,3); putpixel(281,28,3);
putpixel(282,28,3); putpixel(283,28,3);
putpixel(284,28,3); putpixel(285,28,3);
putpixel(286,28,3); putpixel(287,28,3);
putpixel(288,28,3); putpixel(289,28,3);
putpixel(290,28,3); putpixel(291,28,3);
putpixel(292,28,3); putpixel(293,28,3);
putpixel(294,28,3); putpixel(295,28,3);
putpixel(296,28,3); putpixel(297,28,3);
putpixel(298,28,3); putpixel(299,28,3);
putpixel(300,28,3);

putpixel(142,29,3); putpixel(143,29,3);
putpixel(144,29,3); putpixel(145,29,3);
putpixel(146,29,3); putpixel(147,29,3);
putpixel(148,29,3); putpixel(149,29,3);
putpixel(150,29,3); putpixel(151,29,3);
putpixel(152,29,3); putpixel(153,29,3);
putpixel(154,29,3); putpixel(155,29,3);
putpixel(156,29,3); putpixel(157,29,3);
putpixel(158,29,3); putpixel(159,29,3);
putpixel(160,29,3); putpixel(161,29,3);
putpixel(162,29,3); putpixel(163,29,3);
putpixel(164,29,3); putpixel(165,29,3);
putpixel(166,29,3); putpixel(167,29,3);
```

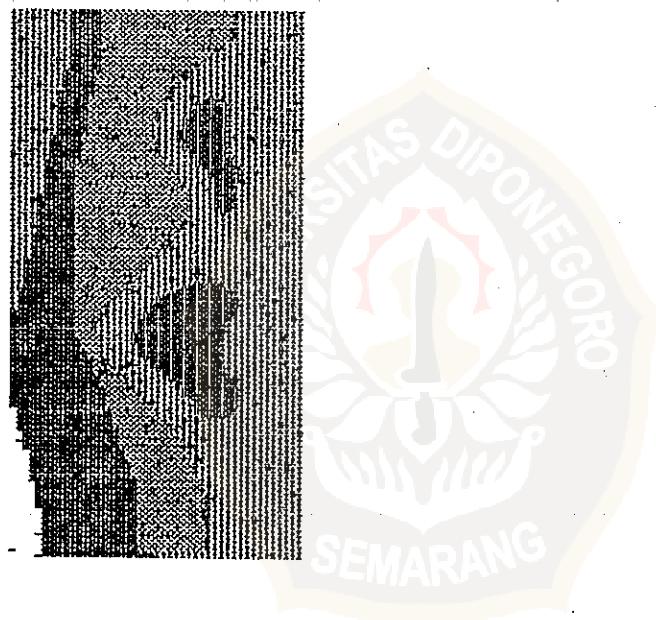
```
putpixel(168,29,3); putpixel(169,29,3);
putpixel(170,29,3); putpixel(171,29,3);
putpixel(172,29,3); putpixel(173,29,3);
putpixel(174,29,3); putpixel(175,29,3);
putpixel(176,29,3); putpixel(177,29,3);
putpixel(178,29,3); putpixel(179,29,3);
putpixel(180,29,3); putpixel(181,29,3);
putpixel(182,29,3); putpixel(183,29,3);
putpixel(184,29,3); putpixel(185,29,3);
putpixel(186,29,3); putpixel(187,29,3);
putpixel(188,29,3); putpixel(189,29,3);
putpixel(190,29,3); putpixel(191,29,3);
putpixel(192,29,3); putpixel(193,29,3);
putpixel(194,29,3); putpixel(195,29,3);
putpixel(196,29,3); putpixel(197,29,3);
putpixel(198,29,3); putpixel(199,29,3);
putpixel(200,29,3); putpixel(201,29,3);
putpixel(202,29,3); putpixel(203,29,3);
putpixel(204,29,3); putpixel(205,29,3);
putpixel(206,29,3); putpixel(207,29,3);
putpixel(208,29,3); putpixel(209,29,3);
putpixel(210,29,3); putpixel(211,29,3);
putpixel(212,29,3); putpixel(213,29,3);
putpixel(214,29,3); putpixel(215,29,3);
putpixel(216,29,3); putpixel(217,29,3);
putpixel(218,29,3); putpixel(219,29,3);
putpixel(220,29,3); putpixel(221,29,3);
putpixel(222,29,3); putpixel(223,29,3);
putpixel(224,29,3); putpixel(225,29,3);
putpixel(216,29,3); putpixel(217,29,3);
putpixel(218,29,3); putpixel(219,29,3);
putpixel(220,29,3); putpixel(221,29,3);
putpixel(222,29,3); putpixel(223,29,3);
putpixel(224,29,3); putpixel(225,29,3);
putpixel(226,29,3); putpixel(227,29,3);
putpixel(228,29,3); putpixel(229,29,3);
putpixel(230,29,3); putpixel(231,29,3);
putpixel(232,29,3); putpixel(233,29,3);
putpixel(234,29,3); putpixel(235,29,3);
putpixel(236,29,3); putpixel(237,29,3);
putpixel(238,29,3); putpixel(239,29,3);
putpixel(240,29,3); putpixel(241,29,3);
putpixel(242,29,3); putpixel(243,29,3);
putpixel(244,29,3); putpixel(245,29,3);
putpixel(246,29,3); putpixel(247,29,3);
putpixel(248,29,3); putpixel(249,29,3);
putpixel(250,29,3); putpixel(251,29,3);
putpixel(252,29,3); putpixel(253,29,3);
putpixel(254,29,3); putpixel(255,29,3);
putpixel(256,29,3); putpixel(257,29,3);
putpixel(258,29,3); putpixel(259,29,3);
putpixel(260,29,3); putpixel(261,29,3);
putpixel(262,29,3); putpixel(263,29,3);
putpixel(264,29,3); putpixel(265,29,3);
putpixel(266,29,3); putpixel(267,29,3);
```

```
putpixel(268,29,3);  
putpixel(270,29,3);  
putpixel(272,29,3);  
putpixel(274,29,3);  
putpixel(276,29,3);  
putpixel(278,29,3);  
putpixel(280,29,3);  
putpixel(282,29,3);  
putpixel(284,29,3);  
putpixel(286,29,3);  
putpixel(288,29,3);  
putpixel(290,29,3);  
putpixel(292,29,3);  
putpixel(294,29,3);  
putpixel(296,29,3);  
putpixel(298,29,3);  
putpixel(300,29,3);  
putpixel(269,29,3);  
putpixel(271,29,3);  
putpixel(273,29,3);  
putpixel(275,29,3);  
putpixel(277,29,3);  
putpixel(279,29,3);  
putpixel(281,29,3);  
putpixel(283,29,3);  
putpixel(285,29,3);  
putpixel(287,29,3);  
putpixel(289,29,3);  
putpixel(291,29,3);  
putpixel(293,29,3);  
putpixel(295,29,3);  
putpixel(297,29,3);  
putpixel(299,29,3);
```

END.

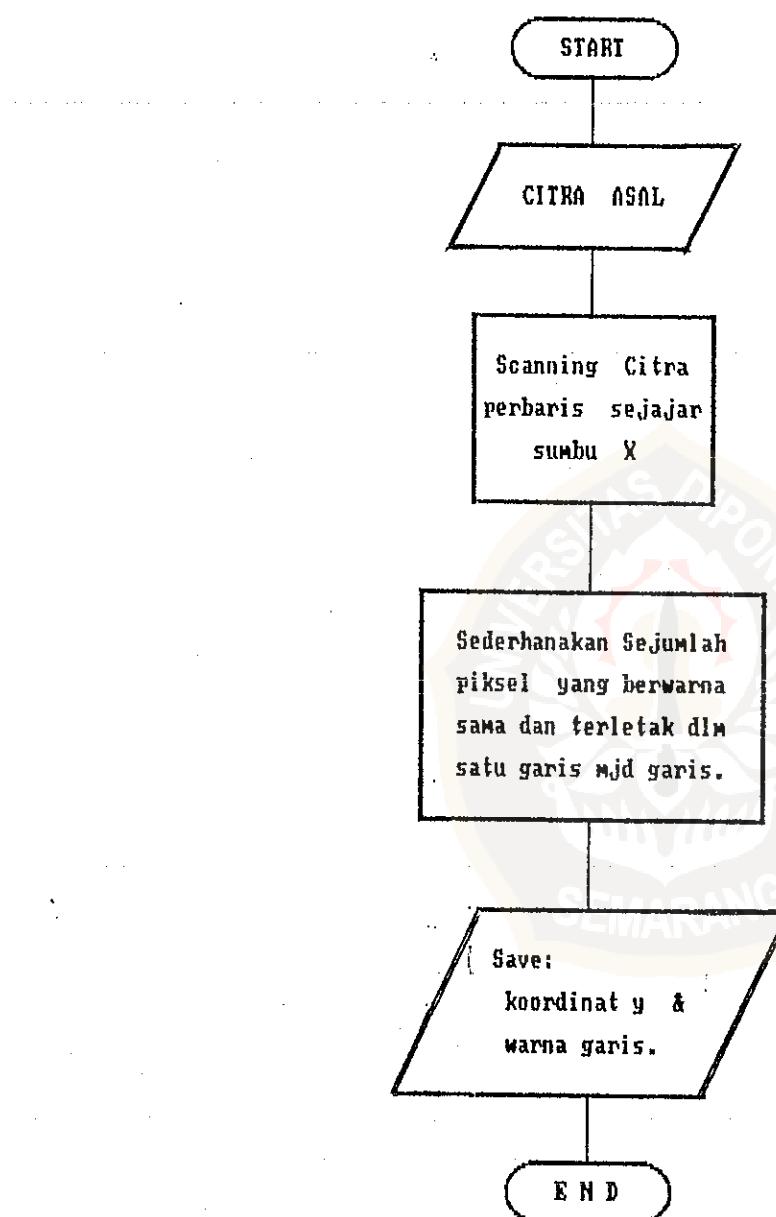


CITRA ASAL





METODE R-LC



```
{*****  
{* *}  
{* PROGRAM STRUKTUR *}  
{* Menggunakan Metode *}  
{* Run Length Coding *}  
{* *}  
{*****}
```

```
USES GRAPH,crt;
```

```
VAR i,j,x,y,gd,gm:integer;  
merah,biru,kelabu,hijau : byte;  
Luas : word;  
Penunjuk : pointer;  
warna,lingkupX,lingkupY,  
maxbintang : word;
```

```
BEGIN
```

```
gd:=detect;gm:=detect;  
initgraph(gd,gm,'');  
setgraphmode(detect);  
setbkcolor(black);
```

```
for i:=84 to 300 do begin putpixel(i,24,3);end;  
for i:=96 to 300 do begin putpixel(i,25,3);end;  
for i:=106 to 300 do begin putpixel(i,26,3);end;  
for i:=116 to 300 do begin putpixel(i,27,3);end;  
for i:=126 to 300 do begin putpixel(i,28,3);end;  
for i:=141 to 300 do begin putpixel(i,29,3);end;  
for i:=153 to 300 do begin putpixel(i,30,3);end;  
for i:=163 to 300 do begin putpixel(i,31,3);end;  
for i:=177 to 300 do begin putpixel(i,32,3);end;  
for i:=186 to 300 do begin putpixel(i,33,3);end;
```

```
for i:=72 to 83 do begin putpixel(i,23,1);end;  
for i:=59 to 95 do begin putpixel(i,24,1);end;  
for i:=50 to 105 do begin putpixel(i,25,1);end;  
for i:=43 to 115 do begin putpixel(i,26,1);end;  
for i:=31 to 125 do begin putpixel(i,27,1);end;  
for i:=22 to 140 do begin putpixel(i,28,1);end;  
for i:=3 to 152 do begin putpixel(i,29,1);end;  
for i:=3 to 162 do begin putpixel(i,30,1);end;  
for i:=3 to 176 do begin putpixel(i,31,1);end;  
for i:=3 to 185 do begin putpixel(i,32,1);end;  
for i:=3 to 300 do begin putpixel(i,33,1);end;  
for i:=3 to 300 do begin putpixel(i,34,1);end;  
for i:=3 to 300 do begin putpixel(i,35,1);end;
```

```

for i:=3 to 300 do begin putpixel(i,36,1);end;
for i:=3 to 300 do begin putpixel(i,37,1);end;
for i:=3 to 300 do begin putpixel(i,38,1);end;
for i:=3 to 300 do begin putpixel(i,39,1);end;
for i:=3 to 300 do begin putpixel(i,40,1);end;
for i:=3 to 300 do begin putpixel(i,41,1);end;
for i:=3 to 300 do begin putpixel(i,42,1);end;
for i:=3 to 300 do begin putpixel(i,43,1);end;
for i:=3 to 300 do begin putpixel(i,44,1);end;
for i:=3 to 300 do begin putpixel(i,45,1);end;

for i:=85 to 152 do begin putpixel(i,34,2);end;
for i:=81 to 162 do begin putpixel(i,35,2);end;
for i:=78 to 176 do begin putpixel(i,36,2);end;
for i:=72 to 185 do begin putpixel(i,37,2);end;
for i:=67 to 300 do begin putpixel(i,38,2);end;
for i:=59 to 300 do begin putpixel(i,39,2);end;
for i:=52 to 300 do begin putpixel(i,40,2);end;
for i:=44 to 300 do begin putpixel(i,41,2);end;
for i:=189 to 300 do begin putpixel(i,41,2);end;
for i:=39 to 300 do begin putpixel(i,42,2);end;
for i:=183 to 300 do begin putpixel(i,42,2);end;
for i:=33 to 300 do begin putpixel(i,43,2);end;
for i:=178 to 300 do begin putpixel(i,43,2);end;
for i:=3 to 300 do begin putpixel(i,44,2);end;
for i:=173 to 300 do begin putpixel(i,44,2);end;
for i:=3 to 300 do begin putpixel(i,45,2);end;
for i:=3 to 300 do begin putpixel(i,46,2);end;
for i:=3 to 300 do begin putpixel(i,47,2);end;
for i:=3 to 300 do begin putpixel(i,48,2);end;
for i:=3 to 300 do begin putpixel(i,49,2);end;
for i:=3 to 300 do begin putpixel(i,50,2);end;
for i:=3 to 300 do begin putpixel(i,51,2);end;
for i:=3 to 300 do begin putpixel(i,52,2);end;
for i:=3 to 300 do begin putpixel(i,53,2);end;
for i:=3 to 300 do begin putpixel(i,54,2);end;
for i:=3 to 300 do begin putpixel(i,55,2);end;
for i:=3 to 300 do begin putpixel(i,56,2);end;
for i:=3 to 300 do begin putpixel(i,57,2);end;
for i:=3 to 300 do begin putpixel(i,58,2);end;

for j:=44 to 58 do begin putpixel(3,j,3);end;
for j:=44 to 58 do begin putpixel(4,j,3);end;
for j:=44 to 58 do begin putpixel(5,j,3);end;

for j:=37 to 58 do begin putpixel(289,j,3);end;
for j:=37 to 58 do begin putpixel(290,j,3);end;
for j:=37 to 58 do begin putpixel(291,j,3);end;
for j:=37 to 58 do begin putpixel(292,j,3);end;
for j:=37 to 58 do begin putpixel(293,j,3);end;
for j:=37 to 58 do begin putpixel(294,j,3);end;
for j:=37 to 58 do begin putpixel(295,j,3);end;
for j:=37 to 58 do begin putpixel(296,j,3);end;
for j:=37 to 58 do begin putpixel(297,j,3);end;
for j:=37 to 58 do begin putpixel(298,j,3);end;

```

```
for j:=37 to 58 do begin putpixel(299,j,3);end;
for j:=37 to 58 do begin putpixel(300,j,3);end;

for i:=88 to 91 do begin putpixel(i,37,3);end;
for i:=78 to 95 do begin putpixel(i,38,3);end;
for i:=75 to 98 do begin putpixel(i,39,3);end;
for i:=73 to 100 do begin putpixel(i,40,3);end;
for i:=71 to 102 do begin putpixel(i,41,3);end;
for i:=68 to 105 do begin putpixel(i,42,3);end;
for i:=66 to 107 do begin putpixel(i,43,3);end;
for i:=63 to 110 do begin putpixel(i,44,3);end;
for i:=61 to 112 do begin putpixel(i,45,3);end;
for i:=59 to 115 do begin putpixel(i,46,3);end;
for i:=162 to 167 do begin putpixel(i,46,3);end;
for i:=56 to 118 do begin putpixel(i,47,3);end;
for i:=156 to 171 do begin putpixel(i,47,3);end;
for i:=54 to 120 do begin putpixel(i,48,3);end;
for i:=153 to 176 do begin putpixel(i,48,3);end;
for i:=50 to 123 do begin putpixel(i,49,3);end;
for i:=149 to 180 do begin putpixel(i,49,3);end;
for i:=48 to 126 do begin putpixel(i,50,3);end;
for i:=146 to 183 do begin putpixel(i,50,3);end;
for i:=44 to 130 do begin putpixel(i,51,3);end;
for i:=143 to 185 do begin putpixel(i,51,3);end;
for i:=39 to 187 do begin putpixel(i,52,3);end;
for i:=34 to 189 do begin putpixel(i,53,3);end;
for i:=27 to 190 do begin putpixel(i,54,3);end;
for i:=3 to 192 do begin putpixel(i,55,3);end;
for i:=3 to 194 do begin putpixel(i,56,3);end;
for i:=3 to 196 do begin putpixel(i,57,3);end;
for i:=3 to 198 do begin putpixel(i,58,3);end;
for i:=3 to 300 do begin putpixel(i,59,3);end;
for i:=3 to 300 do begin putpixel(i,60,3);end;
for i:=3 to 300 do begin putpixel(i,61,3);end;
for i:=3 to 300 do begin putpixel(i,62,3);end;
for i:=3 to 300 do begin putpixel(i,63,3);end;
for i:=3 to 300 do begin putpixel(i,64,3);end;
for i:=3 to 300 do begin putpixel(i,65,3);end;
for i:=3 to 300 do begin putpixel(i,66,3);end;
for i:=3 to 300 do begin putpixel(i,67,3);end;
for i:=3 to 300 do begin putpixel(i,68,3);end;
for i:=3 to 300 do begin putpixel(i,69,3);end;
for i:=3 to 300 do begin putpixel(i,68,3);end;

for i:=83 to 87 do begin putpixel(i,43,4);end;
for i:=79 to 92 do begin putpixel(i,44,4);end;
for i:=78 to 95 do begin putpixel(i,45,4);end;
for i:=75 to 98 do begin putpixel(i,46,4);end;
for i:=73 to 100 do begin putpixel(i,47,4);end;
for i:=71 to 102 do begin putpixel(i,48,4);end;
for i:=69 to 103 do begin putpixel(i,49,4);end;
for i:=67 to 104 do begin putpixel(i,50,4);end;
for i:=64 to 105 do begin putpixel(i,51,4);end;
for i:=62 to 106 do begin putpixel(i,52,4);end;
for i:=58 to 106 do begin putpixel(i,53,4);end;
```

```
for i:=56 to 106 do begin putpixel(i,54,4);end;
for i:=56 to 106 do begin putpixel(i,55,4);end;
for i:=56 to 106 do begin putpixel(i,56,4);end;
for i:=56 to 75 do begin putpixel(i,57,4);end;
for i:=89 to 105 do begin putpixel(i,57,4);end;
for i:=57 to 70 do begin putpixel(i,58,4);end;
for i:=93 to 104 do begin putpixel(i,58,4);end;
for i:=59 to 67 do begin putpixel(i,59,4);end;
for i:=97 to 101 do begin putpixel(i,59,4);end;

for i:=161 to 164 do begin putpixel(i,50,4);end;
for i:=157 to 169 do begin putpixel(i,51,4);end;
for i:=155 to 172 do begin putpixel(i,52,4);end;
for i:=152 to 175 do begin putpixel(i,53,4);end;
for i:=150 to 176 do begin putpixel(i,54,4);end;
for i:=148 to 176 do begin putpixel(i,55,4);end;
for i:=135 to 176 do begin putpixel(i,56,4);end;
for i:=134 to 175 do begin putpixel(i,57,4);end;
for i:=135 to 154 do begin putpixel(i,58,4);end;
for i:=146 to 150 do begin putpixel(i,59,4);end;
```

```
for i:= 210 to 300 do begin
for j:=0 to 100 do begin
  putpixel (i,j,0);
end;end;
```

```
Begin
  Luas:=Imagesize(0,0,210,100);
  Getmem(Penunjuk,Luas);
  Getimage(0,0,210,100, Penunjuk^);
  Putimage(0,100, Penunjuk^, 0);
End;
```

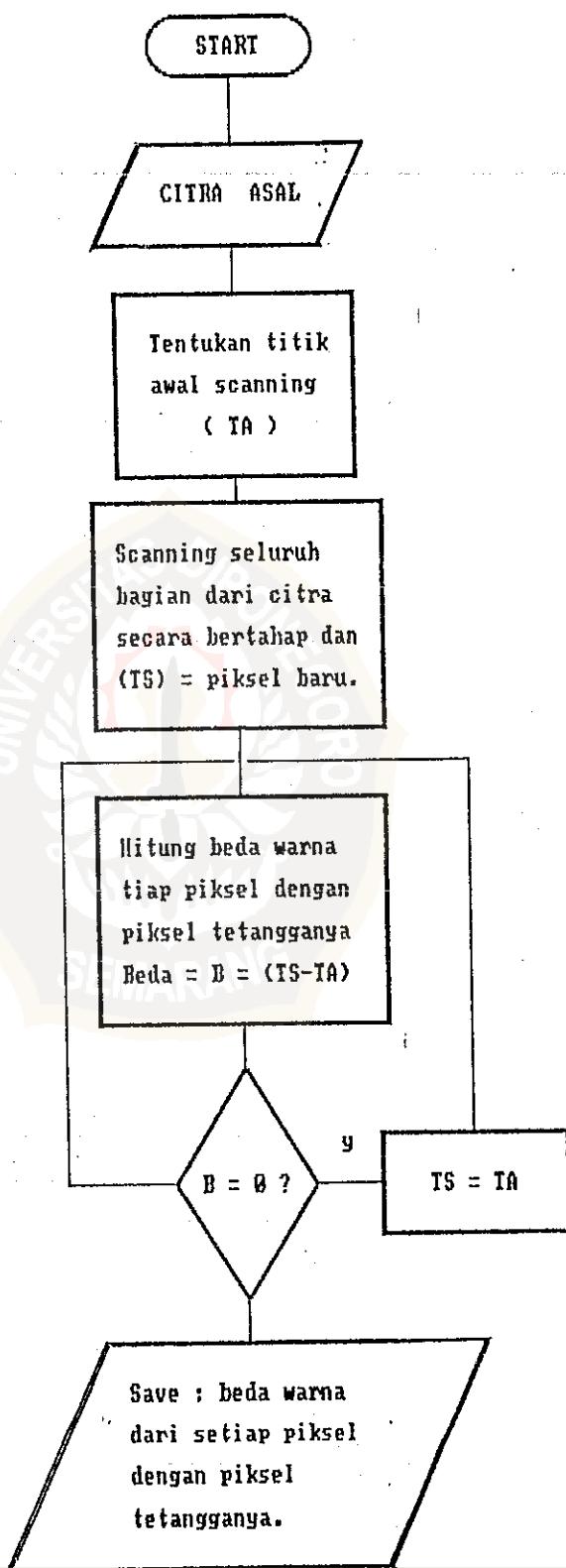
```
readln;
closegraph;
end.
```

HASIL PEMADATAN DATA CITRA DENGAN METODE
RUN-LENGTH CODING





METODE DPCM



```

{*****}
{*          *}
{*      PROGRAM STRUKTUR      *}
{*      Menggunakan Metode      *}
{*          D P C M      *}
{*          *}
{*****}

USES GRAPH,crt,video;

VAR
    i,j,x,y,gd,gm,aku,skenning,
    patokanwarna,bil_bertanda,
    awal,setelah,beda,warnadecoding,
    warnadecoding1,
    warnadecoding2 : integer;
    berkas : text;
    Maxbintang,warna,lingkupx,
    lingkupY : word;
    dik,das :array[1..100,1..100] of byte;

CitraAsal :

i:=1;j:=1;
awal := getpixel(i,j);
patokanwarna := awal;

for i:=1 to 300 do begin
for j:=1 to 100 do begin
    dik[i,j] := 0;
    das[i,j] := 0;
end; end;

for i:=210 to 300 do begin
for j:=1 to 100 do begin
    putpixel(i,j,0);
end;end;

for i:=1 to 300 do begin
for j:=1 to 100 do begin
    awal := getpixel(i,j);
    inc(i);inc(j);

```

```

setelah := getpixel(i,j);
dec(i); dec(j);

if setelah = awal then

begin
    dik[i,j]:= awal;

end

else

begin

    beda := setelah - awal;
    if beda < 0 then begin
        das[i,j] := 1;

    end
    else

begin
    das[i,j] := 0;
    dik[i,j] := beda ;
end;

    dik[i,j] := abs(beda);

end;end;
end;

for i:=1 to 300 do begin
for j:=1 to 100 do begin

bil_bertanda := das[i,j];
beda := dik[i,j];

if bil_bertanda = 1 then
begin
    skenning := beda - patokanwarna;
    if skenning > 4 then exit;

{ write(berkas,skenning,' '); }
    if skenning = 1 then begin
putpixel(i,j+100,1);
end;

    if skenning = 2 then begin
putpixel(i,j+100,2);
end;

```

```
if skenning = 3 then begin
putpixel(i,j+100,3);
end;

if skenning = 4 then begin
putpixel(i,j+100,4);

putpixel(i,j+100,skenning);
end;
putpixel(i,j+100,skenning);
end
else
begin

skenning := patokanwarna + beda;
if skenning > 4 then exit;

if skenning >0 then begin
    putpixel(i,j+100,skenning);
    end;

if skenning = 1 then begin
    putpixel(i,j+100,1);
    end;

if skenning = 2 then begin
    putpixel(i,j+100,2);
    end;

if skenning = 3 then begin
    putpixel(i,j+100,3);
    end;

if skenning = 4 then begin
    putpixel(i,j+100,4);
    end;

    putpixel(i,j+100,skenning);

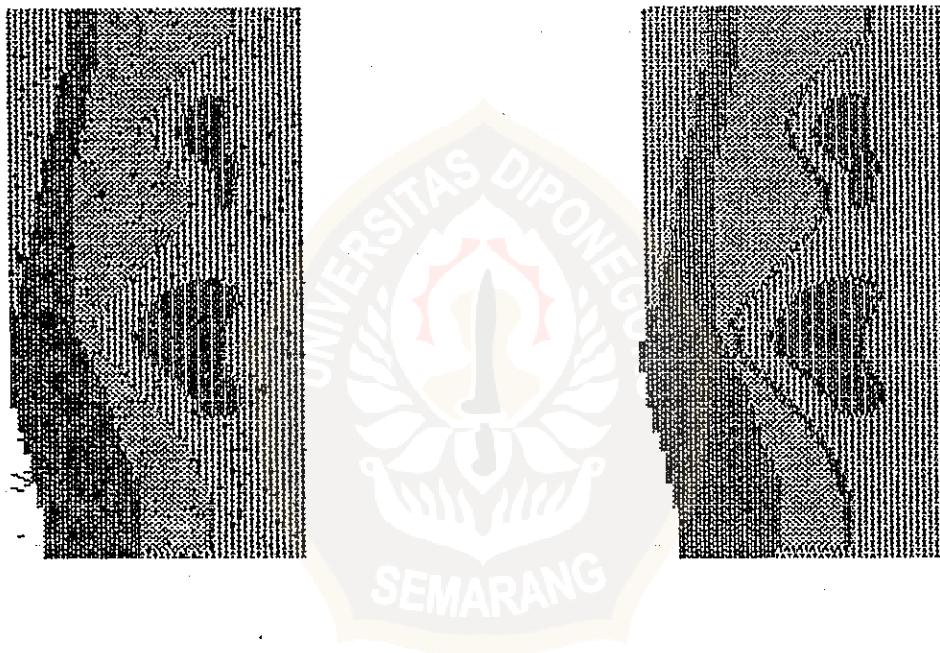
end;
end;end;

{ close(berkas); }

Readln;
Closegraph;
END.
```

DATA HASIL PEMADATAN DENGAN METODE DPCM

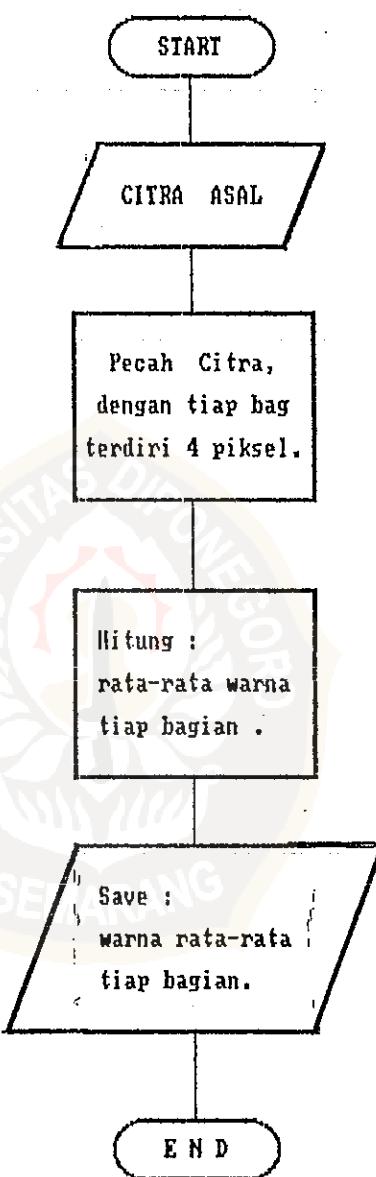
HASIL PEMADATAN DATA CITRA DENGAN METODE DIFFERENTIAL PULSE CODE MODULATION





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METODE QUAD



```
{*****  
{* *}  
{* PROGRAM STRUKTUR *}  
{* Menggunakan Metode *}  
{* Q u a d *}  
{* *}  
{*****}
```

USES GRAPH,crt,video,dos;

```
VAR i,j,x,y,gd,gm,cat,win,rata : integer;  
M,N,P,Q,Selisih,Selisihbaru : integer;  
sumselisih : longint;  
regs : registers;  
berkas : text;  
E,F,M1,M2,N1,N2,P1,P2,Q1,Q2 : integer;  
WADAH : BYTE ;  
QM1,QM2,QN1,QN2,QP1,QP2,QQ1,QQ2 : integer;  
meanwarna,jumlah,sisa : integer;  
SUMWARNA : LONGINT;  
IntX,IntY : integer;  
Desimal,DEVIASI : REAL;  
T,KodeA,KodeB,KodeC,KodeD : integer;  
warna,lingkupX,lingkupY,  
maxbintang : word;  
A,B,C,D : array[1..100,1..100] of byte;  
pecah : array[1..100,1..100] of byte;
```

PROCEDURE WILAYAH;

BEGIN

```
***** ambil data Wilayah *****
```

```
i:=0;  
j:=0;
```

```
QM1 := M1;  
QN1 := N1;  
QP1 := P1;  
QQ1 := Q1;
```

```
for i:=M1 to N1 do begin  
for j:=P1 to Q1 do begin
```

```
    A[i,j]:=getpixel(i,j);  
    end;end;
```

```

I := 0;
J := 0;

M1 := QM1;
N1 := QN1;
P1 := QP1;
Q1 := QQ1;

SUMWARNA := 0;
WADAH := 0;

for i:=M1 to N1 do begin
for j:=P1 to Q1 do begin

    WADAH := A[I,J];

    IF (WADAH=1)OR(WADAH=2)OR(WADAH=3)
    OR(WADAH=4) THEN

        BEGIN
            sumwarna:=sumwarna + A[i,j];
        END;

    end;end;

M1 := QM1;
N1 := QN1;
P1 := QP1;
Q1 := QQ1;

jumlah:= ((N1-M1 + 1) * (Q1-P1 + 1));

MEANWARNA := 0;
MEANWARNA:=sumwarna div jumlah;

Begin

M1 := QM1;
N1 := QN1;
P1 := QP1;
Q1 := QQ1;

for i:=M1 to N1 do begin
for j:=P1 to Q1 do begin

    putpixel(i,j+100,meanwarna);

end;end;

```

End;

END;

PROCEDURE PECAHS;

BEGIN

 M1:=E;
 N1:=E + 2;
 P1:=F;
 Q1:=F + 2;
End;

CitraAsal;

{*****}

FOR I:=210 to 300 do begin
for j:=14 to 100 do begin
 putpixel(i,j,0);
end;end;

{*****}

F:=0;

repeat

 for E:=1 to 300 do

 begin

 E:=E + 2;

 pecahs;
 wilayah;

 end;

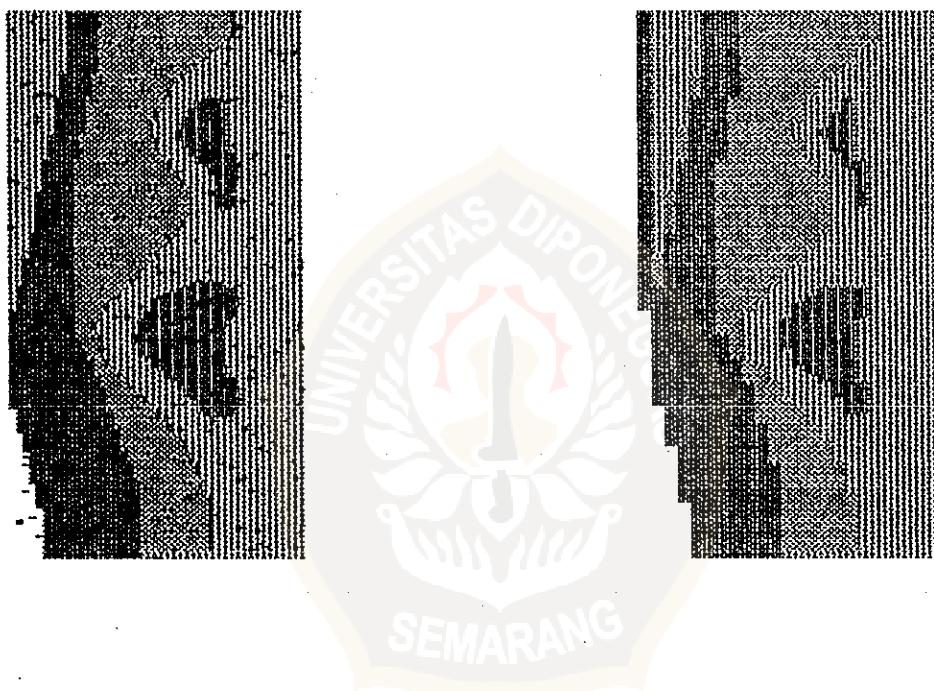
 F:=F+2;

until F=100;

readln;
closegraph;
END.

HASIL PEMADATAN DATA CITRA DENGAN METODE QUAD

HASIL PEMADATAN DATA CITRA DENGAN METODE
Q U A D

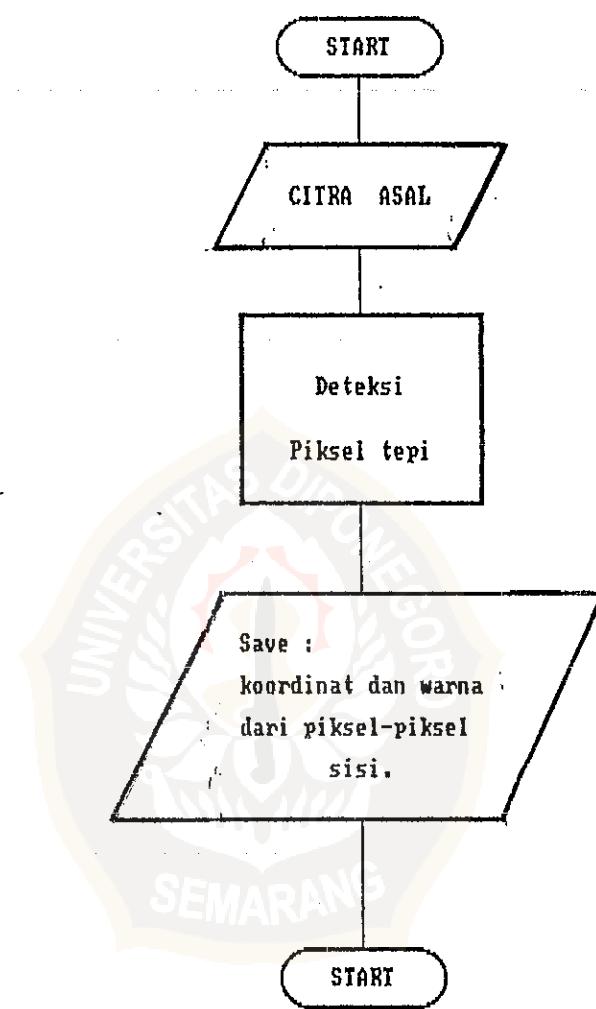


1



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METODE DETEKSI SISI



```

{*****}
{*           *}
{*   PROGRAM STRUKTUR      *}
{* Menggunakan Metode       *}
{*     Deteksi Sisi          *}
{*           *}
{*****}

USES GRAPH,crt,video,dos;
Type
    warna='1'..'4';

Var
    a,b,c,d,e,i,
    j,gd,gm,kode : integer;
    Ais, Bis      : array [1..210,1..100] of byte;
    Cis,Dis,titikawal : array [1..210,1..10] of byte;
    regs          : registers;
    berkas        : text;
    Eis,Fis,Gis,His,
    Iis,Jis       : array [1..210,1..10] of byte;

CitraAsal;

{ ***** }

for i:=210 to 300 do begin
for j:=3 to 100 do begin
    putpixel(i,j,0);
end;end;

{ ***** }

for i:=1 to 210 do begin
for j:=1 to 100 do begin
    Ais[i,j]:=getpixel (i,j);
end;end;

for i:=1 to 210 do begin
for j:=1 to 100 do begin
    Bis[i,j] := (abs(Ais[i,j]-Ais[i+1,j]) +
                  abs(Ais[i,j] - Ais[i,j-1]));
end;end;

for i:=1 to 210 do begin
for j:=1 to 100 do begin
    putpixel(i,j+100,Bis[i,j]);
end;end;

```

```

{***** Merubah Warna Kontur *****}

for i:=1 to 210 do begin
for j:=100 to 200 do begin

    Cis[i,j]:=getpixel(i,j);

    if (cis[i,j]=1) or (cis[i,j]=2) or
       (cis[i,j]=3) then

        Begin
            cis[i,j]:=15;
        end;

        putpixel(i,j,Cis[i,j]);

    end;end;

{ ***** scanning kontur ***** }

for i:=1 to 210 do begin
for j:=120 to 180 do begin

    dis[i,j]:=getpixel(i,j);

end;end;

{ ***** }

for i:=1 to 210 do begin
for j:=120 to 180 do begin

    if (dis[i,j]<>0) then

        begin
            a:=i; b:=j;
            dis[i,j]:=15;
        end;

    end;end;

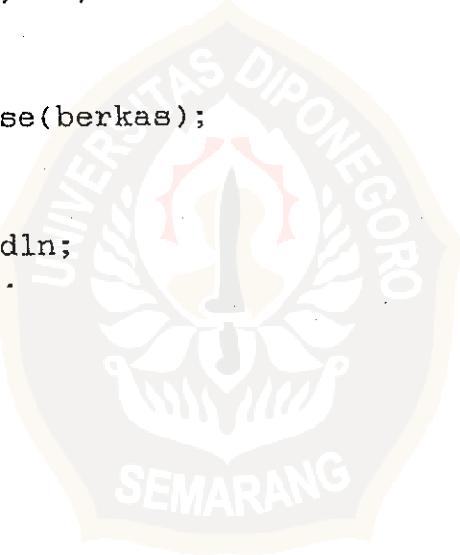
{***** Tulis Data *****}

for i:=1 to 210 do begin
for j:=100 to 200 do begin

    if (dis[i,j]<>0) then

```

```
Begin  
    closegraph;  
  
    regs.ax :=$0003;  
    intr ($10,regs);  
  
    assign (berkas,'b:data.pic');  
    rewrite(berkas);  
  
    for i:=1 to 210 do begin  
        for j:=100 to 200 do begin  
  
            if (dis[i,j]<>0) then  
                write('(',',',i,',',j,',',dis[i,j],',') );  
  
        end;end;  
  
    end;  
end;end;  
  
close(berkas);  
  
readln;  
end.  
.
```



DATA HASIL PEMADATAN DENGAN METODE DETEKSI SISI

(1	159	15)	(6	129	15)	(11	169	15)
(1	169	15)	(6	139	15)	(11	179	15)
(1	179	15)	(6	149	15)	(12	179	15)
(1	189	15)	(6	159	15)	(12	189	15)
(1	189	15)	(6	169	15)	(12	199	15)
(1	199	15)	(7	109	15)	(13	109	15)
(2	129	15)	(7	119	15)	(13	119	15)
(2	139	15)	(7	129	15)	(13	129	15)
(2	149	15)	(7	139	15)	(13	139	15)
(2	159	15)	(7	149	15)	(13	149	15)
(2	169	15)	(7	159	15)	(13	159	15)
(2	179	15)	(7	169	15)	(13	169	15)
(2	189	15)	(7	179	15)	(13	179	15)
(2	199	15)	(7	189	15)	(13	189	15)
(3	139	15)	(7	199	15)	(13	199	15)
(3	149	15)	(8	109	15)	(14	109	15)
(3	159	15)	(8	119	15)	(14	119	15)
(3	169	15)	(8	129	15)	(14	129	15)
(3	179	15)	(8	139	15)	(14	139	15)
(3	189	15)	(8	149	15)	(14	149	15)
(3	199	15)	(8	159	15)	(14	159	15)
(4	109	15)	(8	169	15)	(14	169	15)
(4	119	15)	(8	179	15)	(14	179	15)
(4	129	15)	(8	189	15)	(14	189	15)
(4	139	15)	(8	199	15)	(14	198	15)
(4	149	15)	(9	169	15)	(15	189	15)
(4	159	15)	(9	179	15)	(15	198	15)
(4	169	15)	(9	189	15)	(16	109	15)
(4	179	15)	(9	199	15)	(16	119	15)
(4	189	15)	(10	109	15)	(16	129	15)
(4	199	15)	(10	119	15)	(16	139	15)
(5	109	15)	(10	129	15)	(16	149	15)
(5	119	15)	(10	139	15)	(16	159	15)
(5	129	15)	(10	149	15)	(16	169	15)
(5	139	15)	(10	159	15)	(16	179	15)
(5	149	15)	(10	169	15)	(16	189	15)
(5	159	15)	(10	179	15)	(16	198	15)
(5	169	15)	(10	189	15)	(17	109	15)
(5	179	15)	(10	199	15)	(17	119	15)
(5	189	15)	(10	109	15)	(17	129	15)
(5	199	15)	(10	119	15)	(17	139	15)
(6	169	15)	(10	129	15)	(17	149	15)
(6	179	15)	(10	139	15)	(17	159	15)
(6	189	15)	(10	149	15)	(17	169	15)
(6	199	15)	(10	159	15)	(17	179	15)

(18 188 15)	(25 118 15)	(31 118 15)
(18 198 15)	(25 128 15)	(31 127 15)
(19 109 15)	(25 138 15)	(31 137 15)
(19 119 15)	(25 148 15)	(31 147 15)
(19 139 15)	(25 158 15)	(31 157 15)
(19 139 15)	(25 168 15)	(31 167 15)
(19 148 15)	(25 177 15)	(31 177 15)
(19 149 15)	(25 178 15)	(31 187 15)
(19 158 15)	(25 187 15)	(31 197 15)
(19 168 15)	(25 197 15)	(32 107 15)
(19 178 15)	(26 108 15)	(32 108 15)
(19 188 15)	(26 118 15)	(32 117 15)
(19 198 15)	(26 128 15)	(32 127 15)
(20 109 15)	(26 138 15)	(32 137 15)
(20 119 15)	(26 148 15)	(32 147 15)
(20 129 15)	(26 158 15)	(32 157 15)
(20 138 15)	(26 167 15)	(32 167 15)
(20 139 15)	(26 168 15)	(32 177 15)
(20 148 15)	(26 177 15)	(32 187 15)
(20 158 15)	(26 187 15)	(32 197 15)
(20 168 15)	(26 197 15)	
(20 178 15)		
(20 188 15)		(33 177 15)
(20 198 15)	(27 187 15)	(33 187 15)
	(27 197 15)	(33 197 15)
	(28 108 15)	(34 107 15)
(21 198 15)	(28 118 15)	(34 117 15)
(22 109 15)	(28 128 15)	(34 127 15)
(22 118 15)	(28 138 15)	(34 137 15)
(22 119 15)	(28 147 15)	(34 147 15)
(22 128 15)	(28 148 15)	(34 157 15)
(22 138 15)	(28 157 15)	(34 167 15)
(22 148 15)	(28 167 15)	(34 177 15)
(22 158 15)	(28 177 15)	(34 187 15)
(22 168 15)	(28 187 15)	(34 197 15)
	(28 197 15)	(35 107 15)
(22 178 15)	(29 108 15)	(35 117 15)
(22 188 15)	(29 118 15)	(35 127 15)
(22 198 15)	(29 128 15)	(35 137 15)
(23 108 15)	(29 137 15)	(35 147 15)
(23 109 15)	(29 138 15)	(35 157 15)
(23 118 15)	(29 147 15)	(35 167 15)
(23 128 15)	(29 157 15)	(35 177 15)
(23 138 15)	(29 167 15)	(35 187 15)
(23 148 15)		(35 196 15)
(23 158 15)		(35 197 15)
(23 168 15)	(29 177 15)	
(23 178 15)	(29 187 15)	
(23 188 15)	(29 197 15)	(36 187 15)
(23 197 15)		(36 196 15)
(23 198 15)		(37 107 15)
	(30 187 15)	(37 117 15)
	(30 197 15)	(37 127 15)
(24 188 15)	(31 108 15)	(37 137 15)
(24 197 15)	(31 117 15)	(37 147 15)
(25 108 15)		

(37 157 15)	(43 186 15)	(53 165 15)
(37 167 15)	(43 195 15)	(53 174 15)
(37 176 15)	(44 106 15)	(53 175 15)
(37 177 15)	(44 107 15)	(53 184 15)
(37 186 15)	(44 116 15)	(53 194 15)
(37 196 15)	(44 126 15)	
(38 107 15)	(44 136 15)	
(38 117 15)	(44 146 15)	(54 184 15)
(38 127 15)	(44 156 15)	(54 194 15)
(38 137 15)	(44 166 15)	(55 105 15)
(38 147 15)		(55 115 15)
(38 157 15)	(44 175 15)	(55 125 15)
(38 166 15)	(44 176 15)	(55 135 15)
(38 167 15)	(44 185 15)	(55 145 15)
(38 176 15)	(44 195 15)	(55 154 15)
(38 186 15)		(55 165 15)
(38 196 15)		(55 184 15)
	(45 185 15)	(55 174 15)
	(45 195 15)	(55 184 15)
(39 186 15)	(46 106 15)	(55 194 15)
(39 196 15)	(46 116 15)	(56 105 15)
(40 107 15)	(46 126 15)	(56 115 15)
(40 117 15)	(46 136 15)	(56 125 15)
(40 127 15)	(46 146 15)	(56 135 15)
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(40 146 15)	(46 166 15)	(56 145 15)
(40 147 15)	(46 165 15)	(56 154 15)
(40 156 15)	(46 175 15)	(56 164 15)
(40 166 15)	(46 185 15)	(56 174 15)
(40 176 15)	(46 195 15)	(56 184 15)
(40 186 15)	(47 106 15)	(56 194 15)
(40 196 15)	(47 116 15)	
(41 107 15)	(47 126 15)	
(41 117 15)	(47 136 15)	(57 184 15)
(41 127 15)	(47 145 15)	(57 194 15)
(41 136 15)	(47 146 15)	(58 105 15)
(41 137 15)	(47 155 15)	(58 115 15)
(41 146 15)	(47 166 15)	(58 124 15)
(41 156 15)	(47 175 15)	(58 125 15)
(41 166 15)	(47 185 15)	(58 134 15)
(41 176 15)	(47 195 15)	(58 144 15)
(41 186 15)		(58 154 15)
(41 196 15)	(52 155 15)	(58 164 15)
	(52 165 15)	(58 174 15)
	(52 175 15)	(58 184 15)
(43 107 15)	(52 184 15)	(58 194 15)
(43 116 15)	(52 185 15)	(59 105 15)
(43 117 15)	(52 194 15)	(59 114 15)
(43 126 15)	(53 105 15)	(59 115 15)
(43 136 15)	(53 115 15)	(59 124 15)
(43 146 15)	(53 125 15)	(59 134 15)
(43 156 15)	(53 135 15)	(59 144 15)
(43 166 15)	(53 145 15)	(59 154 15)
(43 176 15)	(53 155 15)	

(59 164 15)	(65 184 15)	(72 173 15)
(59 174 15)	(65 193 15)	(72 183 15)
(59 184 15)		(72 193 15)
(59 194 15)		(73 103 15)
	(66 183 15)	(73 104 15)
	(66 193 15)	(73 113 15)
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(60 174 15)	(67 114 15)	(73 133 15)
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(61 114 15)	(67 154 15)	(73 173 15)
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(61 154 15)	(67 183 15)	(74 113 15)
(61 164 15)	(67 193 15)	(74 123 15)
(61 174 15)	(68 104 15)	(74 133 15)
(61 184 15)	(68 114 15)	(74 143 15)
(61 194 15)	(68 124 15)	(74 153 15)
(62 104 15)	(68 134 15)	(74 163 15)
(62 114 15)	(68 144 15)	(74 173 15)
(62 124 15)	(68 153 15)	(74 183 15)
(62 134 15)	(68 154 15)	(74 193 15)
(62 144 15)	(68 163 15)	
(62 154 15)	(68 173 15)	(75 163 15)
(62 164 15)	(68 183 15)	(75 173 15)
(62 174 15)	(68 193 15)	(75 183 15)
(62 184 15)		(75 193 15)
(62 194 15)		
	(69 183 15)	(76 103 15)
	(69 193 15)	(76 113 15)
(63 184 15)	(70 104 15)	(76 123 15)
(63 194 15)	(70 114 15)	(76 133 15)
(64 104 15)	(70 124 15)	(76 143 15)
(64 114 15)	(70 133 15)	(76 153 15)
(64 124 15)	(70 134 15)	(76 163 15)
(64 134 15)	(70 143 15)	(76 173 15)
(64 144 15)	(70 153 15)	(76 183 15)
(64 154 15)	(70 163 15)	(76 193 15)
(64 164 15)	(70 173 15)	(77 103 15)
(64 174 15)	(70 183 15)	(77 113 15)
(64 184 15)	(70 193 15)	(77 123 15)
(64 193 15)	(71 104 15)	(77 133 15)
(64 194 15)	(71 114 15)	(77 143 15)
(65 104 15)	(71 123 15)	(77 153 15)
(65 114 15)	(71 124 15)	(77 163 15)
(65 124 15)	(71 133 15)	(77 173 15)
(65 134 15)	(71 143 15)	(77 183 15)
(65 144 15)	(71 153 15)	(77 194 15)
(65 154 15)	(71 163 15)	
(65 164 15)	(71 173 15)	
(65 174 15)	(71 183 15)	
(65 183 15)		

(78 163 15)	(84 194 15)	(91 185 15)
(78 173 15)	(85 103 15)	(91 194 15)
(78 184 15)	(85 114 15)	(91 195 15)
(78 194 15)	(85 124 15)	(92 104 15)
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(79 113 15)	(85 144 15)	(92 124 15)
(79 123 15)	(85 154 15)	(92 134 15)
(79 133 15)	(85 164 15)	(92 144 15)
(79 143 15)	(85 174 15)	(92 154 15)
(79 153 15)	(85 184 15)	(92 164 15)
(79 163 15)	(85 194 15)	(92 165 15)
(79 174 15)	(86 104 15)	(92 174 15)
(79 184 15)	(86 114 15)	(92 175 15)
(79 194 15)	(86 124 15)	(92 184 15)
(80 103 15)	(86 134 15)	(92 185 15)
(80 113 15)	(86 144 15)	(92 194 15)
(80 123 15)	(86 154 15)	(92 195 15)
(80 133 15)	(86 164 15)	
(80 143 15)	(86 174 15)	(94 165 15)
(80 153 15)	(86 184 15)	(94 174 15)
(80 164 15)	(86 194 15)	(94 175 15)
(80 174 15)		(94 184 15)
(80 184 15)		(94 185 15)
(80 194 15)		(94 194 15)
	(87 174 15)	(94 195 15)
	(87 184 15)	(94 195 15)
	(87 194 15)	(95 104 15)
	(88 104 15)	(95 114 15)
	(88 114 15)	(95 124 15)
	(88 124 15)	(95 134 15)
	(88 134 15)	(95 135 15)
	(88 144 15)	(95 135 15)
	(88 154 15)	(95 144 15)
	(88 164 15)	(95 145 15)
(81 164 15)	(88 174 15)	(95 154 15)
(81 174 15)	(88 184 15)	(95 155 15)
(81 184 15)	(88 194 15)	(95 164 15)
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(82 103 15)	(89 114 15)	(95 174 15)
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HASIL PEMADATAN DATA CITRA DENGAN METODE
DETEKSI SISI



