

1. 2016-2

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001 /* (c) 2016 Rahmat M. Samik-Ibrahim -- This is free software
005  * Assume (&ptrchr is 0x7FFFEEDDCCBB, order of bytes: little-endian) */
009 #define LINES 3
010 #include <stdio.h>
012 void printeq(int lines) {
013     while (lines-- > 0 ) printf("= = ");
014     printf("\n");
015 }
017 void main(void) {
018     int          ii;
019     unsigned char dummy = 'a';
020     unsigned char* ptrchr = &dummy;
022     printeq(LINES);
023     printf(" dummy:  %c\n", dummy);
024     printf(" *ptrchr: %c\n", *ptrchr);
025     printeq(LINES);
026     printf("%p\n", &ptrchr);
027     printeq(LINES);
028     ptrchr = (char*) &ptrchr;
029     for (ii=0; ii<6; ii++) {
030         printf("%X ", *ptrchr);
031         ptrchr++;
032     }
033     putchar('\n');
034     printeq(LINES);
035 }
```

(a) Write down the output of this program

2. 2017-1

C Programming

<pre>001 /* 002 * (c) 2017 Rahmat M. Samik-Ibrahim 003 * -- This is free software 004 * REV00 Thu Mar 30 18:27:30 WIB 2017 005 * START Thu Mar 30 18:27:30 WIB 2017 006 * INT is 32 bit little endian 007 * 41H='A'; 42H='B'; 43H='C'; 44H='D' 008 */ 009 #include <stdio.h> 010 char chrary[]="ZZZZ ZZZZ ";</pre>	<pre>011 void main(void) { 012 char chrvar = 'M'; 013 int intvar = 0x41424344; 014 int* intptr = (int*) chrary; 015 printf("YY. chrary=%p\n", chrary); 016 printf("ZZ. intptr=%p\n", intptr); 017 printf("01. chrvar=%c\n", chrvar); 018 printf("02. *chrary=%c\n", *chrary); 019 printf("03. str chrary=%s\n", chrary); 020 *intptr = intvar; 021 printf("04. str chrary=%s\n", chrary); 022 }</pre>
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Program Output (Line: 015, 016, 017, 018, 019, 021):

YY. chrary=0x600a08

