Latihan Pointer

IF2110/IF2111 – Algoritma dan Struktur Data
Sekolah Teknik Elektro dan Informatika
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Latihan 1

Tentukan nilai s dan t pada 4 *statement* terakhir.

```
int f (void) {
  int s = 1;
  int t = 1;
  int *ps = &s;
  int **pps = &ps;//int **pps; pps=&ps
  int *pt = &t;

  **pps = 2;
  pt = ps;
  *pt = 3;
  t = s;
}
```

Materi dari: David Evans (CS216, lecture10, 2006, www.cs.virginia.edu/~evans/cs216/classes/lecture10.ppt)

Latihan 2

Tentukan nilai dan jelaskan apa yang terjadi terhadap ip setelah pemanggilan masing-masing fungsi.

```
int *value (void) {
  int i = 3;
  return &i;
}
void callme (void) {
  int x = 35;
}

int main (void) {
  int *ip;
  ip = value ();
  printf ("*ip == %d\n", *ip);
  callme ();
  printf ("*ip == %d\n", *ip);
}
```

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Latihan 3. Nilai temp dan ptr

```c
int main() {
  char blocks[3] = {'I','T','B'}; // asumsi,alamat array blok adalah 4434
  char *ptr = &blocks[0];
  char temp;

  temp = blocks[0];
  temp = *(blocks + 2);
  temp = *(ptr + 1);
  temp = *ptr;

  ptr = blocks + 1;
  temp = *ptr;
  temp = *(ptr + 1);

  ptr = blocks;
  temp = *++ptr;
  temp = ++*ptr;
  temp = *ptr++;
  temp = *ptr;

  return 0;
}
```

Materi dari: David Evans (CS216, lecture10, 2006, www.cs.virginia.edu/~evans/cs216/classes/lecture10.ppt)