Pointer to an array

```
main()
{
  int i;
  int a[5] = {10, 20, 30, 40, 50};
  int *p;
    p = a;
  for (i=0; i<5; i++)
    {
      printf("%d\t", a[i]);          // 10 20 30 40 50
    }
  for (i=0; i<5; i++)
    {
      printf("%d\t", *(p+i));        // 10 20 30 40 50
    }
  for (i=0; i<5; i++)
    {
      printf("%d\t", (p+i));         // 1036 1040 1044 1048 1052
    }
  return 0;
  }
```

Pointer to an array of 10 integers

```
main()
  {
    int i;
    int a[5] = {10, 20, 30, 40, 50};
    int (*pto)[5];
      pto = &a;
  for (i=0; i<5; i++)
    {
  printf("%d\t", (*pto)[i]);         //10 20 30 40 50
    }
```

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```
for (i=0; i<5; i++)
{
    printf("%d\n", *(p+i)); // 1036 1056
}                           1076 1096
                            1116
for (i=0; i<5; i++)
{
    printf("%d\n", &(*(p+i))); //
                            1036 1040
}                           1044 1048
                            1052
}
```

Array of pointers.

```
main()
{
    int a, b, c, d, e;
    int *p[4] = {&a, &b, &c, &d};
    a=10; b=20; c=30; d=40;
    for(i=0; i<4; i++)
    {
        printf("%d\n", *(p[i])); // 10 20 30 40
        printf("%u\n", p[i]); // 1076 1072 1068
    }                         1064
    return 0;
}
```

Teacher's Signature:

```
main()
{
int a[3] = {10, 20, 30};
int *p[3], i;
for (i=0; i<3; i++)
    p[i] = &a[i];
    or p[i] = a[i];
}
for (i=0; i<3; i++)
    printf("%d\n", *p[i]);        // 10 20 30
return 0;
}
```