

HOMEWORK – ADVANCED PROGRAMING

Topic: Pointer (Part 1)

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Pratice 2.1

Given the following code

```
int main()
{
    int *x, y = 2;

    float *z = &y;

    *x = *z + y;

    printf("%d\n", y);
}
```

a. Fix error of code

- y is an interger variable but the program uses a float pointer to point to y. This is invalid because y and z are mismatched variable (y is int while z is float pointer).
- A pointer when initialize normally points to nothing and have a garbage address. For instance, x is declared as a integer variable but does not hold any address. Using “*” operator is invalid when x does not point to anything.

Fixing the code

```
int main()
{
    int *x, y = 2;

    int *z = &y;

    int sum; x = &sum;

    *x = *z + y;

    printf("%d\n", y);
}
```

b. After fixing the code, the program will print y value is 2 on the screen.