* —o— Problems —o—

① Compute the following using BCD addition.

(i) 18 + 82.

```
  18          0001    1000
+ 82        + 1000    0010
-----       ---------------
 100       1 1010     1010  → Not valid
             0110     0110
           ----------------
           1 0000     0000  ⇒ [100]
```

(ii) 184 + 419

```
  184       0001  1000  0100
+ 419       0100  0001  1001
-----       -----------------
  603       0110  1010  1101
                  0110  0110
            -----------------
            0110  0000  0011  ⇒ [603]
```

② Convert Gray code 10101010111 to binary.

```
1   0   1   0   1   0   1   0   1   1   1
↓ + ↓ + ↓ + ↓ + ↓ + ↓ + ↓ + ↓ + ↓ + ↓ + ↓
1   1   0   0   1   1   0   0   1   0   1
```

⇒ 11 0011 00101.