

```
1  /**
2   * file: compare.c
3   *
4   * See https://randomascii.wordpress.com/2012/02/25/comparing-floating-point-numbers-2012-edition/
5   *
6   * Created by hfwei on 2022/11/10.
7   */
8
9  #include <float.h>
10 #include <math.h>
11 #include <stdio.h>
12 #include <stdbool.h>
13
14 bool IsEqual(double x, double y);
15
16 int main() {
17     printf("%d\n", IsEqual(DBL_MAX, DBL_MAX - 100));
18
19     printf("%.50f\n", DBL_MAX - (DBL_MAX - 100));
20
21     return 0;
22 }
23
24 bool IsEqual(double x, double y) {
25     return fabs(x - y) <= DBL_EPSILON;
26 }
```