1. For large numbers, sometimes we need to declare int64\_t to adapt to the number.

Int64\_t is exactly 64bits, long is at least 32 bits.

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| --- | --- | --- |
| **数据类型** | **字节大小** | **数值范围** |
| short int (短整型） | 2 字节 | -32 768 〜+32 767 |
| unsigned short int (无符号短整型） | 2 字节 | 0 〜+65 535 |
| int (整型) | 4 字节 | -2 147 483 648 〜+2 147 483 647 |
| unsigned int (无符号整型） | 4 字节 | 0 〜4 294 967 295 |
| long int (长整型） | 4 字节 | -2 147 483 648 〜+2 147 483 647 |
| unsigned long int (无符号长整型） | 4 字节 | 0 〜4 294 967 295 |
| long long int (超长整型） | 8字节 | -9 223 372 036 854 775 808~9 223 372 036 854 775 807 |
| unsigned long long int (无符号超长整型） | 8字节 | 048 446 744 073 709 551 615 |

Decimal number of digits, short int : 5, int : 10, long : 10, long long : 19

1. When we try to find the largest pairwise product in assignment 2, the condition that the two numbers are the same should be considered.