

課題 (関数) 解答例

```
#include <stdio.h>
void  GetData( int * );
float average( int * );
int   max( int * );
int   min( int * );
void  main( void )      /* main 関数 */
{
    int   A[ 10 ];

    GetData( A );
    printf( "the average is %7.2f ¥n", average(A) );
    printf( "the maximum is %7d   ¥n", max(A) );
    printf( "the minimum is %7d   ¥n", min(A) );
}
void GetData( int *X )      /* データを入力 */
{
    int i;

    printf( "Enter 10 Data: ¥n" );
    for ( i = 0 ; i < 10 ; ++i )
        scanf( "%d", &X[ i ] );
}
float average( int *X )      /* 平均を求める */
{
    int i, total;

    total = 0;
    for ( i = 0 ; i < 10 ; ++i )
        total = total + X[ i ];
    return( ( float )total/10 );
}
int   max( int *X )          /* 最大値を求める */
{
    int i, xmax;

    xmax = X[0];
    for ( i = 0 ; i < 10 ; ++i )
        if( xmax < X[i] ) xmax=X[i];
    return( xmax );
}
int   min( int *X )          /* 最小値を求める */
{
    int i, xmin;

    xmin = X[0];
    for ( i = 0 ; i < 10 ; ++i )
        if( xmin > X[i] ) xmin=X[i];
    return( xmin );
}
```