10주차 실습과제

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**import** java.util. \*;

**public** **class** Sort {

**public** **static** **void** selectionSort(**int**[] a)

{

**int** i, j, min;

**for**(i = 0; i < a.length - 1; i++)

{

min = i;

**for**(j = i+1; j < a.length; j++)

{

**if**(a[j] < a[min])

min = j;

}

*swap*(a, min, i);

}

}

**public** **static** **void** insertionSort(**int** a[])

{

**int** k; // 임시저장소

**int** i, j;

**boolean** move;

**for**(i = 1; i < a.length; i++)

{

k = a[i];

j = i;

**if**(a[j-1] > k)

move = **true**;

**else**

move = **false**;

**while**(move)

{

a[j] = a[j-1];

j = j - 1;

**if**(j > 0 && a[j-1]>k)

move = **true**;

**else**

move = **false**;

}

a[j] = k;

}

}

**public** **static** **void** mbubbleSort(**int** a[])

{

**int** i, j;

**int** flag = 0;

**for**(i = a.length - 1; i >= 0; --i)

{

flag = 0;

**for**(j = 0; j < i; j++)

{

**if**(a[j] > a[j + 1])

{

*swap*(a, j, j+1);

flag = 1;

}

**if**(flag == 0)

{

**break**;

}

}

}

}

**public** **static** **void** bubbleSort(**int** a[])

{

**int** i, j;

**for**(i = a.length - 1; i >= 0; --i)

{

**for**(j = 0; j < i; j++)

{

**if**(a[j] > a[j + 1])

{

*swap*(a, j, j+1);

}

}

}

}

**public** **static** **void** swap(**int**[] a, **int** j, **int** k)

{

**int** temp;

temp = a[j];

a[j] = a[k];

a[k] = temp;

}

}

**import** java.util. \*;

**public** **class** Sort {

**public** **static** **void** selectionSort(**int**[] a)

{

**int** i, j, min;

**for**(i = 0; i < a.length - 1; i++)

{

min = i;

**for**(j = i+1; j < a.length; j++)

{

**if**(a[j] < a[min])

min = j;

}

*swap*(a, min, i);

}

}

**public** **static** **void** insertionSort(**int** a[])

{

**int** k; // 임시저장소

**int** i, j;

**boolean** move;

**for**(i = 1; i < a.length; i++)

{

k = a[i];

j = i;

**if**(a[j-1] > k)

move = **true**;

**else**

move = **false**;

**while**(move)

{

a[j] = a[j-1];

j = j - 1;

**if**(j > 0 && a[j-1]>k)

move = **true**;

**else**

move = **false**;

}

a[j] = k;

}

}

**public** **static** **void** mbubbleSort(**int** a[])

{

**int** i, j;

**int** flag = 0;

**for**(i = a.length - 1; i >= 0; --i)

{

flag = 0;

**for**(j = 0; j < i; j++)

{

**if**(a[j] > a[j + 1])

{

*swap*(a, j, j+1);

flag = 1;

}

**if**(flag == 0)

{

**break**;

}

}

}

}

**public** **static** **void** bubbleSort(**int** a[])

{

**int** i, j;

**for**(i = a.length - 1; i >= 0; --i)

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**for**(j = 0; j < i; j++)

{

**if**(a[j] > a[j + 1])

{

*swap*(a, j, j+1);

}

}

}

}

**public** **static** **void** swap(**int**[] a, **int** j, **int** k)

{

**int** temp;

temp = a[j];

a[j] = a[k];

a[k] = temp;

}

}

