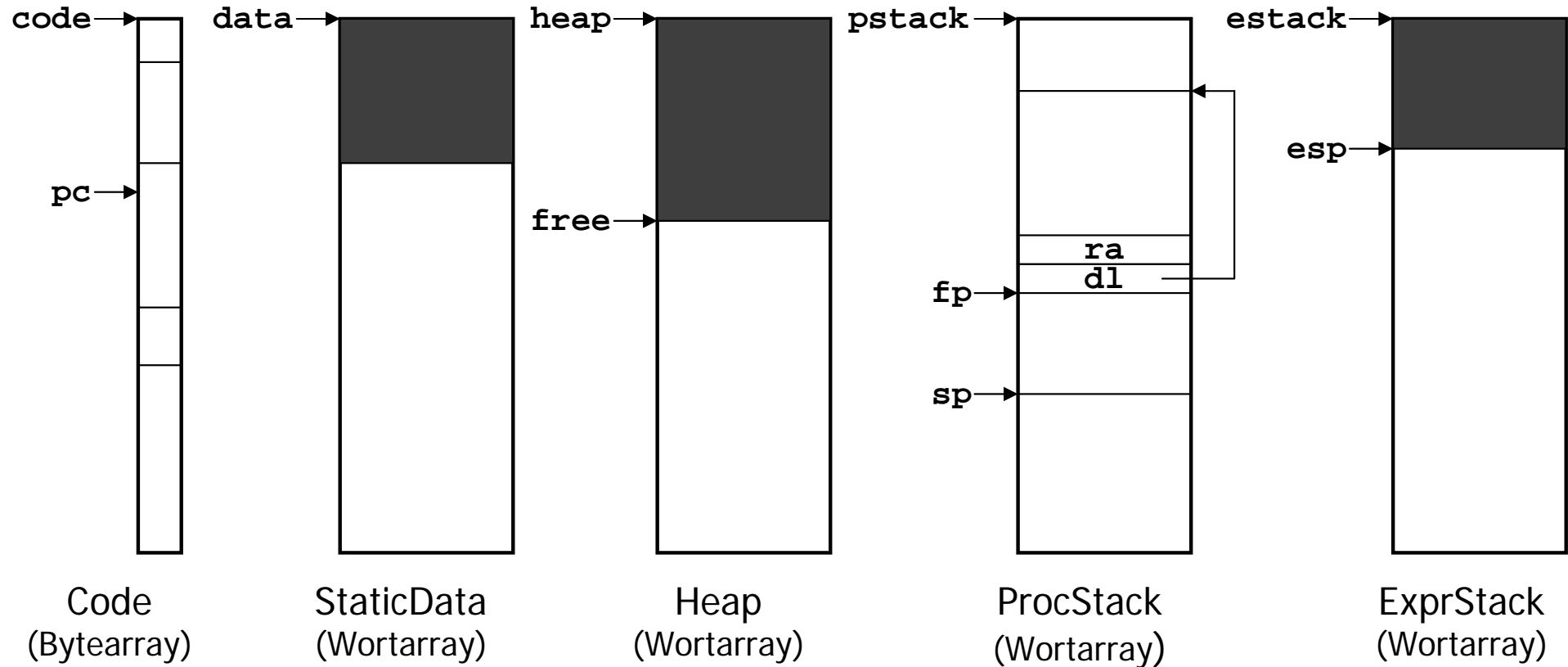




MicroJava VM: Speicher-Layout

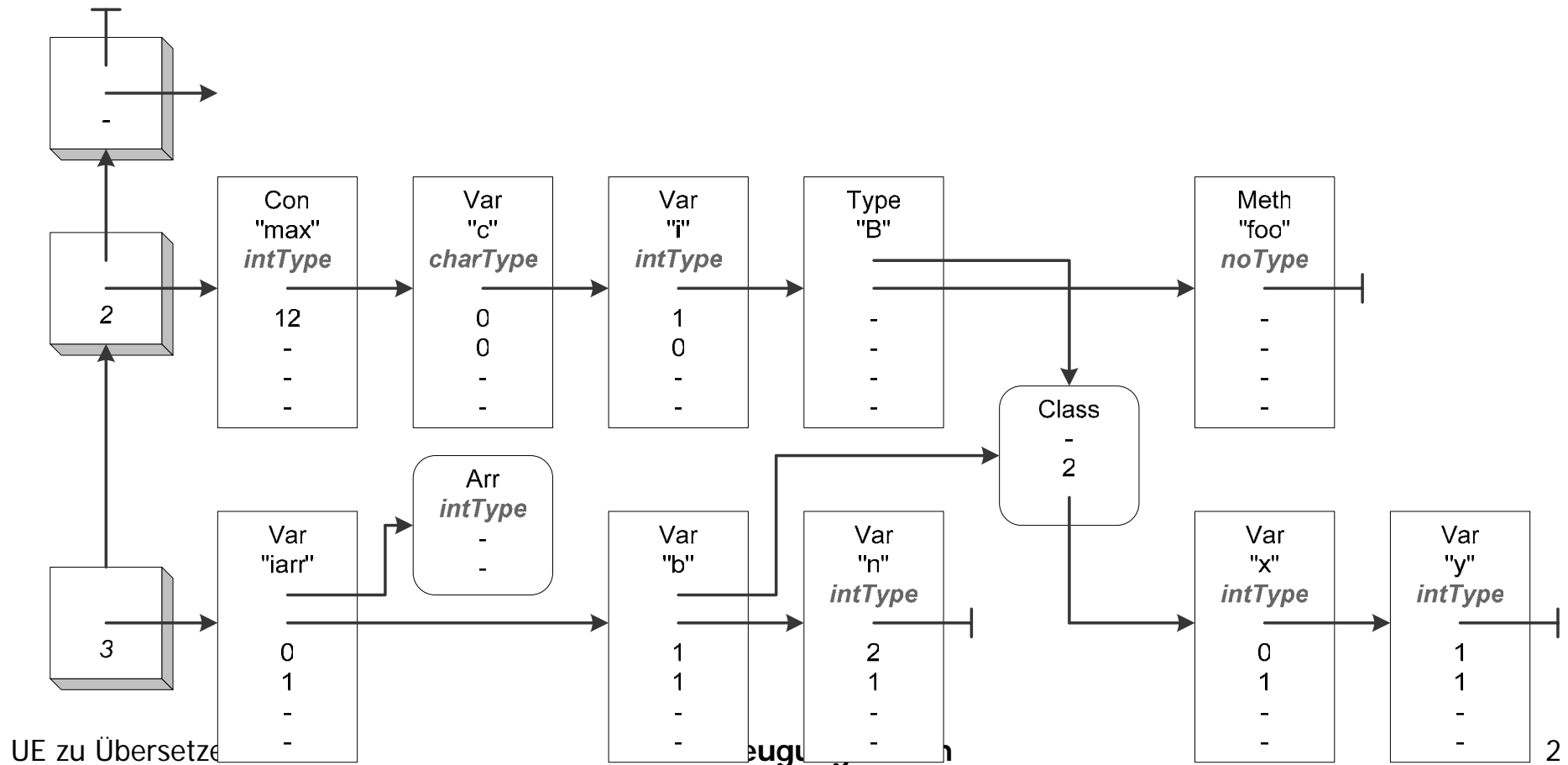


Symboltabelle

Deklaration: program A

```

final int max = 12;           // Konstante
char c; int i;              // globale Variablen
class B { int x, y; }       // innere Klasse mit Feldern
{ void foo () int[] iarr; B b; int n; {...} }
    
```



UE zu Übersetze

Augu

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Bsp 2: **i = 10;**

Deklaration: program A

```
    final int max = 12;           // Konstante
    char c; int i;                // globale Variablen
    class B { int x, y; }         // innere Klasse mit Feldern
{ void foo () int[] iarr; B b; int n; {...} }
```

const 10 = **8** byte
putstatic 1

Bsp 3: **n = 3 + i;**

Deklaration: program A

```
    final int max = 12;           // Konstante
    char c; int i;                // globale Variablen
    class B { int x, y; }         // innere Klasse mit Feldern
{ void foo () int[] iarr; B b; int n; {...} }
```

```
const_3                               = 6 byte
getstatic 1
add
store_2
```

Bsp 4: $n = 3 + i * \text{max} - n;$

Deklaration: program A

```
    final int max = 12;           // Konstante
    char c; int i;               // globale Variablen
    class B { int x, y; }        // innere Klasse mit Feldern
{ void foo () int[] iarr; B b; int n; {...} }
```

```
const_3                               = 14 byte
getstatic 1
const 12
mul
add
load_2
sub
store_2
```

Bsp 5: **iarr[5] = 10;**

Deklaration: program A

```
    final int max = 12;      // Konstante
    char c; int i;          // globale Variablen
    class B { int x, y; }    // innere Klasse mit Feldern
{ void foo () int[] iarr; B b; int n; {...} }
```

```
load_0
const_5
const 10
astore                                = 8 byte
```


Bsp 7: **n--;**

Deklaration: **program A**

```
final int max = 12;           // Konstante  
char c; int i;             // globale Variablen  
class B { int x, y; }       // innere Klasse mit Feldern  
{ void foo () int[] iarr; B b; int n; {...} }
```

inc 2 255 = **3** byte

