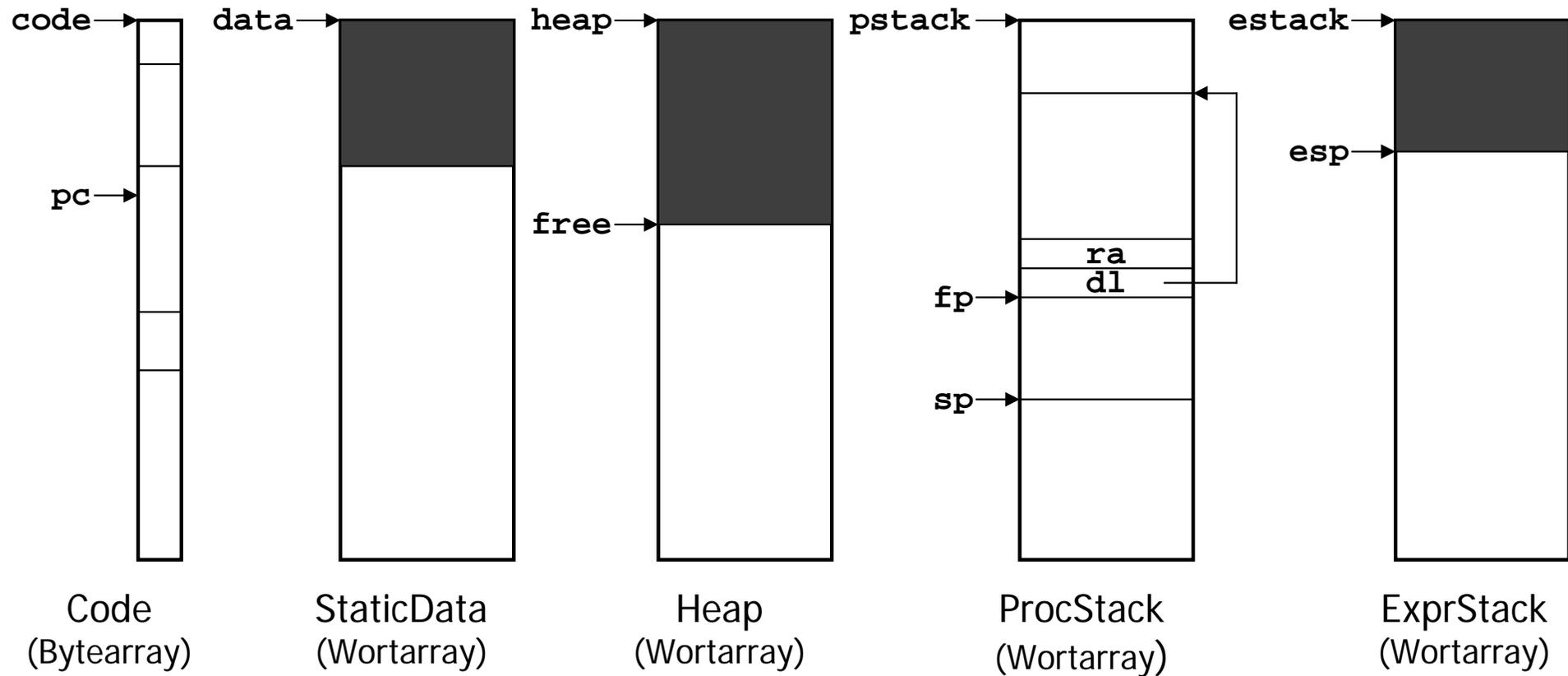




# MicroJava VM: Speicher-Layout

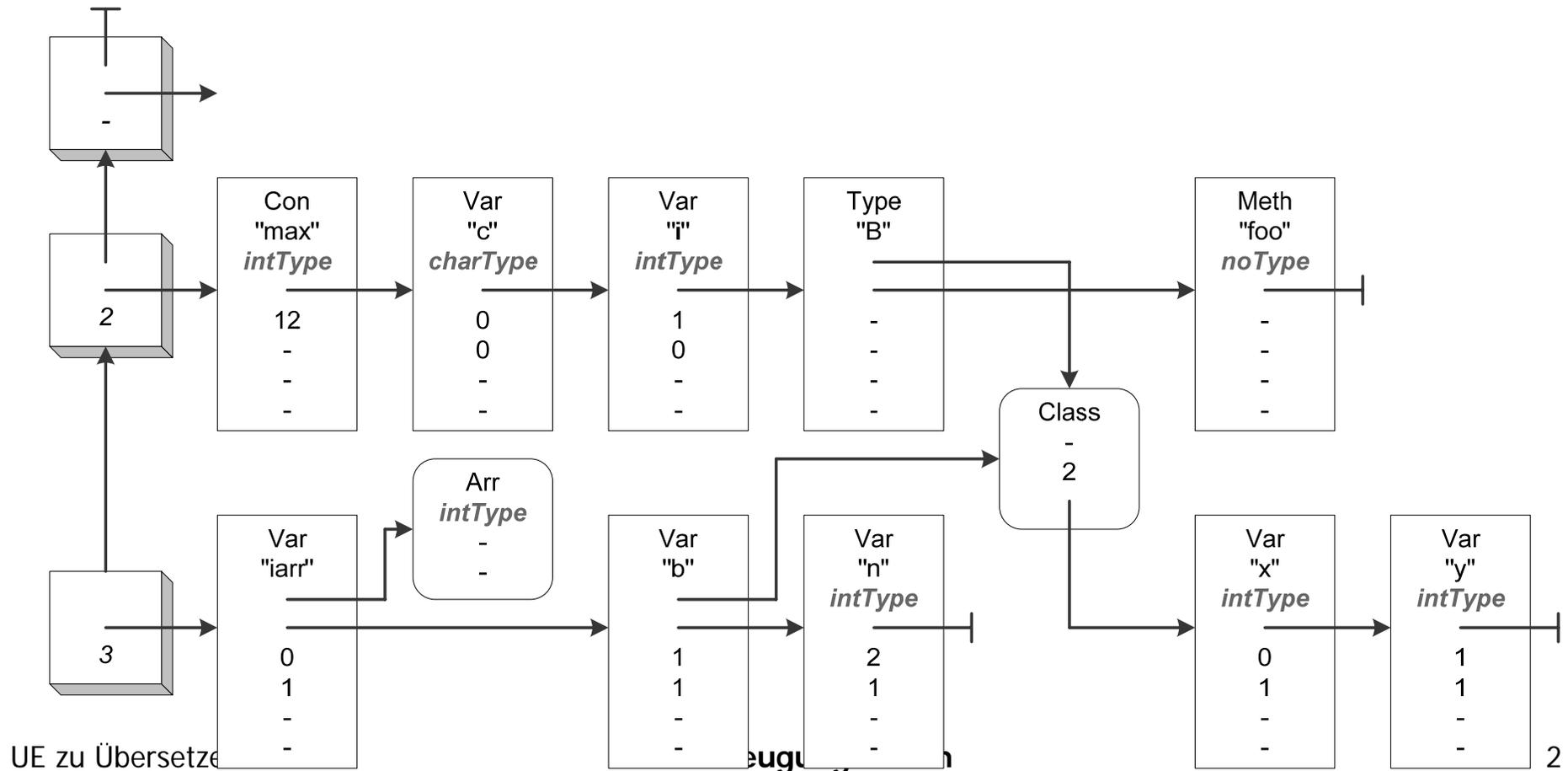


# Symboltabelle

**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; {...} }
    
```





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





