C Programming

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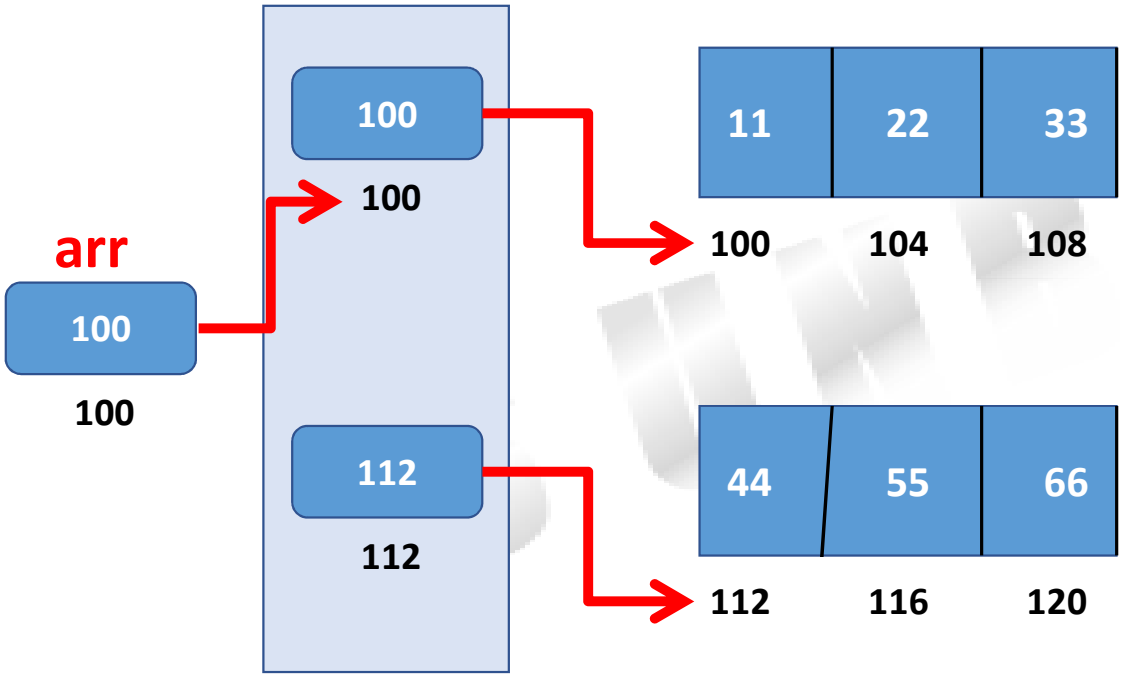
Multi Dimensional Array

- We can declare n dimensions of array.
- Allows to represent and access data with various hierarchical manner.
  - e.g. If we want each row should have 3 columns
  - Here 2 represents row count
  - Here 3 represents column count
    - int arr[2][3] = {{11,22,33},{44,55}};
    - int arr[2][3] = {11,22,33,44,55};

Multi Dimensional Array

int arr[2][3] = {{11,22,33},{44,55,66}};

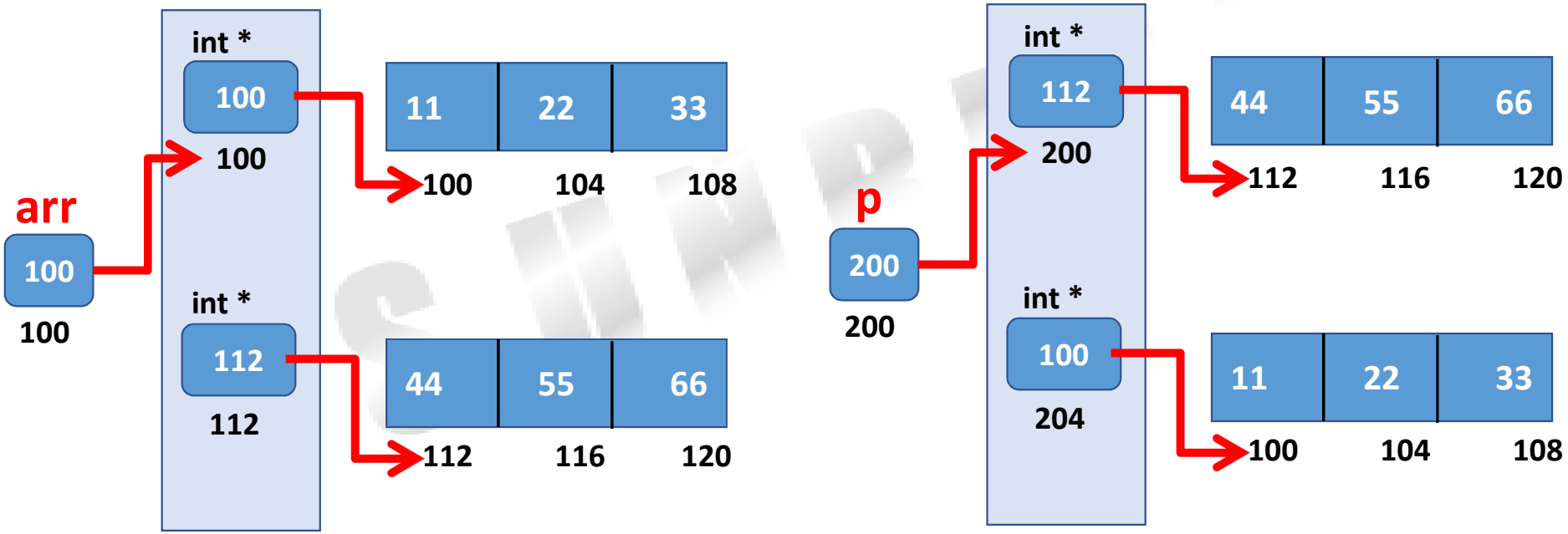


arr[1][1] === *(*(arr+1)+1)

arr = 100
Address of row / pointer to int
arr+1 = 112
Address of row / pointer to int
*(arr+1) = 112
Address of int
*(arr+1)+1 = 116
Address of int
((arr+1)+1) = 55
int value

Array of pointers

```
int arr[2][3] = {{11,22,33},{44,55,66}};
int *p[2] = {*(arr+1),*(arr)};
```



CommandLine Arguments

Execute Application at terminal

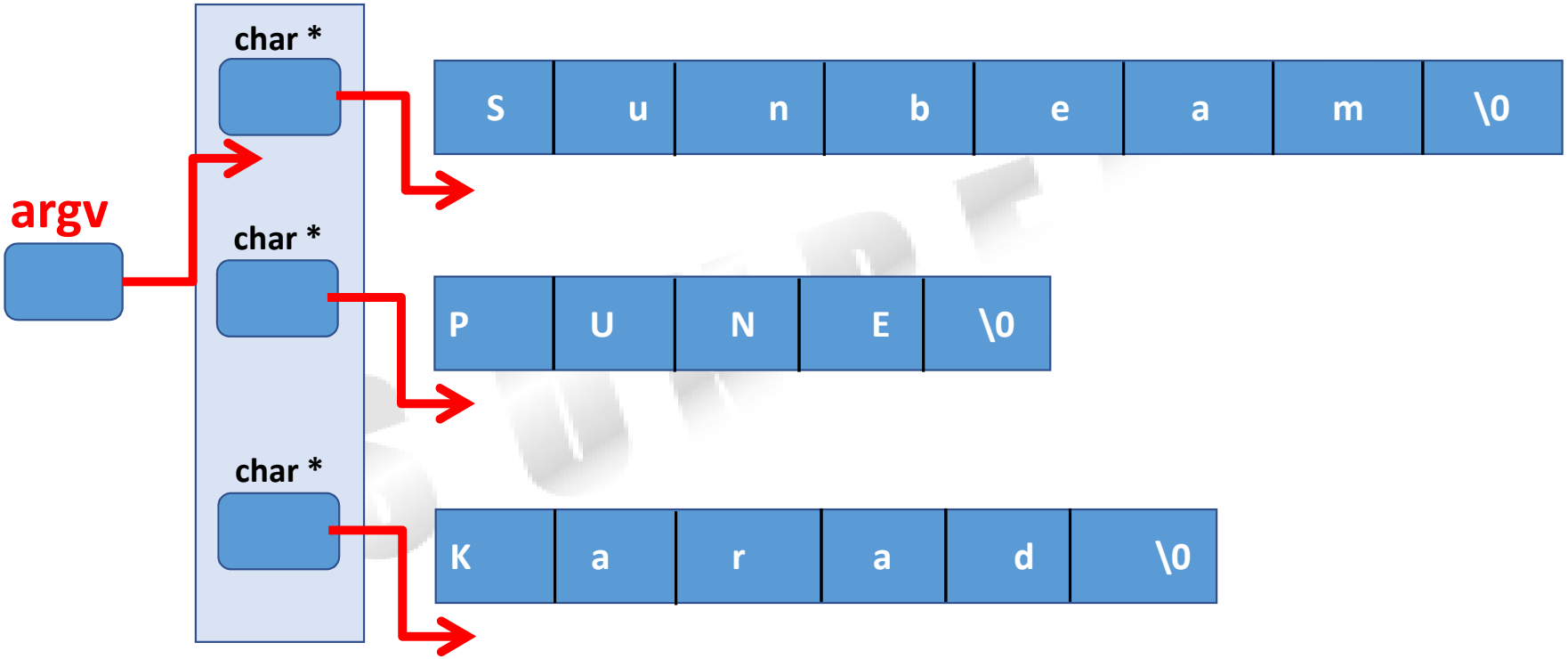
e.g. .\a.exe Sunbeam Pune Karad

```
int main(int argc, char *argv[], char *env[])
{
        <statements>
}
```

Here …

1. argc stores count of arguments given to main
2. argv stores list of arguments in string format
3. env stores list of environment variables in string format

CommandLine Arguments



Thank you!