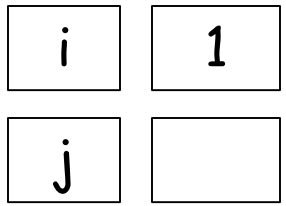
Nested Loops

nl1.c simulation

```
int main() {
    int i, j;
    for ( i = 1; i <= 5; i++) {
        printf("%d - ", i);
        for ( j = 1; j <= 3; j++)
        {
            printf("%d ", j);
        }
        printf("\n");
    }
    return 0;
}
```



nl1.c simulation

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    int i, j;
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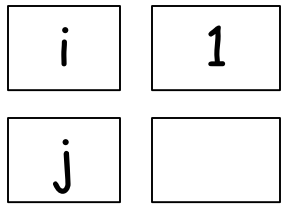
        {
            printf("%d ", j);
        }
        printf("\n");
    }
    return 0;
}
```



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```
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        }
        printf("\n");
    }
    return 0;
}
```

i	1
j	1

1-

nl1.c simulation

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    int i, j;
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```

i	1
j	1

1-1

nl1.c simulation

```
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    int i, j;
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        {
            printf("%d ", j);
        }
        printf("\n");
    }
    return 0;
}
```

i	1
j	2

1-1

nl1.c simulation

```
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        {
          printf("%d ", j);
        }
        printf("\n");
    }
    return 0;
}
```

i	1
j	2

```
1-1 2
```

nl1.c simulation

```
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    int i, j;
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        {
            printf("%d ", j);
        }
        printf("\n");
    }
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```

i	1
j	3

1-1 2

nl1.c simulation

```
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    int i, j;
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        for ( j = 1; j <= 3; j++)
        {
          printf("%d ", j);
        }
        printf("\n");
    }
    return 0;
}
```

i	1
j	3

```
1-1 2 3
```

nl1.c simulation

```
int main() {
    int i, j;
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        for ( j = 1; j <= 3; j++)
        {
            printf("%d ", j);
        }
        printf("\n");
    }
    return 0;
}
```

i	1
j	4

1-1 2 3

nl1.c simulation

```
int main() {
    int i, j;
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        {
            printf("%d ", j);
        }
        printf("\n");
    }
    return 0;
}
```

i	1
j	4

```
1-1 2 3
```

nl1.c simulation

```
int main() {
    int i, j;
    for ( i = 1; i <= 5; i++) {
        printf("%d - ", i);
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        {
            printf("%d ", j);
        }
        printf("\n");
    }
    return 0;
}
```

i	2
j	4

```
1-1 2 3
```

nl1.c simulation

```
int main() {
    int i, j;
    for ( i = 1; i <= 5; i++) {
        printf("%d - ", i);
        for ( j = 1; j <= 3; j++)
        {
            printf("%d ", j);
        }
        printf("\n");
    }
    return 0;
}
```

i	2
j	4

```
1 - 1 2 3
2 -
```

nl1.c simulation

```
int main() {
    int i, j;
    for ( i = 1; i <= 5; i++) {
        printf("%d - ", i);
        for ( j = 1; j <= 3; j++)
        {
            printf("%d ", j);
        }
        printf("\n");
    }
    return 0;
}
```

i	2
j	4

```
1 - 1 2 3
2 - 1 2 3
```

nl1.c simulation

```
int main() {
    int i, j;
    for ( i = 1; i <= 5; i++) {
        printf("%d - ", i);
        for ( j = 1; j <= 3; j++)
        {
            printf("%d ", j);
        }
        printf("\n");
    }
    return 0;
}
```

i	3
j	4

```
1 - 1 2 3
2 - 1 2 3
3 - 1 2 3
```