

Online C Compiler.

Code, Compile, Run and Debug C program online.

Write your code in this editor and press "Run" button to compile

```
#include<stdio.h>
```

```
#include<stdbool.h>
```

```
#include<string.h>
```

```
#define INF 9999999
```

```
#define V 5
```

```
int G[V][V] = {  
    {0, 9, 75, 0, 0},  
    {9, 0, 95, 19, 42},  
    {75, 95, 0, 51, 66},  
    {0, 19, 51, 0, 31},  
    {0, 42, 66, 31, 0}};
```

```
int main() {  
    int no_edge;  
    int selected[V];  
    memset(selected, false, sizeof(selected));
```

```
    no_edge = 0;  
    selected[0] = true;
```

```
    int x;  
    int y;
```

```
    printf("Edge : Weight\n");
```

```
memset(selected, false, sizeof(selected));
```

```
no_edge = 0;
```

```
selected[0] = true;
```

```
int x;
```

```
int y;
```

```
printf("Edge : Weight\n");
```

```
while (no_edge < V - 1) {
```

```
    int min = INF;
```

```
    x = 0;
```

```
    y = 0;
```

```
    for (int i = 0; i < V; i++) {
```

```
        if (selected[i]) {
```

```
            for (int j = 0; j < V; j++) {
```

```
                if (!selected[j] && G[i][j]) {
```

```
                    if (min > G[i][j]) {
```

```
                        min = G[i][j];
```

```
                        x = i;
```

```
                        y = j;
```

```
                    }
```

```
                }
```

```
            }
```

```
        }
```

```
    }
```

```
    printf("%d - %d : %d\n", x, y, G[x][y]);
```

```
    selected[y] = true;
```

```
    no_edge++;
```

```
}
```

```
return 0;
```

```
}
```


Edge : Weight

0 - 1 : 9

1 - 3 : 19

3 - 4 : 31

3 - 2 : 51

...Program finished with exit code 0

Press ENTER to exit console.

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