

```

// Order fast food. print cost.
// IF statement

#include <stdio.h>
#define TAX_RATE 0.08 // sales tax 8%
#define BIGGIE 0.59 // biggie size 59 cents extra

int main()
{
    int combo; // combo number
    char size; // Yes or No for biggie size
    float price; // combo price
    float salesTax;

    printf( "Welcome to Hamburger Palace\n" );

    printf( "Enter the combo number (1-6): " );
    scanf ( "%d", &combo );
    printf( "Would you like that biggie sized? (Y or N): " );
    scanf ( " %c", &size ); // blank space needed before %c

    // determine price
    if ( combo == 1 || combo == 3 ) price = 3.99;
    if ( combo == 2 || combo == 5 || combo == 6 ) price = 4.79;
    if ( combo == 4 ) price = 5.89;

    // other costs
    if( size == 'Y' || size == 'y' ) price += BIGGIE;
    salesTax = price * TAX_RATE;

    // print receipt
    printf( "\ncombo %d $%.2f\n", combo, price );
    printf( "tax %.2f\n", salesTax );
    printf( "total $%.2f\n", price + salesTax );

    return 0;
}

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Welcome to Hamburger Palace
Enter the combo number (1-6): 6
Would you like that biggie sized? (Y or N): y

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combo 6 $ 5.38
tax      0.43
total    $ 5.81

```

```

// Order fast food. print cost.
// IF ELSE IF statement

#include <stdio.h>
#define TAX_RATE 0.08 // sales tax 8%
#define BIGGIE 0.59 // biggie size 59 cents extra

int main()
{
    int combo; // combo number
    char size; // Yes or No for biggie size
    float price; // combo price
    float salesTax;
    nn
    printf( "Welcome to Hamburger Palace\n" );

    printf( "Enter the combo number (1-6): " );
    scanf ( "%d", &combo );
    printf( "Would you like that biggie sized? (Y or N): " );
    scanf ( " %c", &size ); // blank space needed before %c

// determine price
    if ( combo == 1 || combo == 3 ) price = 3.99;
    else if
        ( combo == 2 || combo == 5 || combo == 6 ) price = 4.79;
    else if
        ( combo == 4 ) price = 5.89;

// other costs
    if( size == 'Y' || size == 'y' ) price += BIGGIE;
    salesTax = price * TAX_RATE;

// print receipt
    printf( "\ncombo %d $%.2f\n", combo, price );
    printf( "tax %.2f\n", salesTax );
    printf( "total $%.2f\n", price + salesTax );

    return 0;
}

```

```

// Order fast food. print cost.
// switch statement

#include <stdio.h>
#define TAX_RATE 0.08 // sales tax 8%
#define BIGGIE 0.59 // biggie size 59 cents extra

int main()
{
    int combo; // combo number
    char size; // Yes or No for biggie size
    float price; // combo price
    float salesTax;

    printf( "Welcome to Hamburger Palace\n" );

    printf( "Enter the combo number (1-6): " );
    scanf ( "%d", &combo );
    printf( "Would you like that biggie sized? (Y or N): " );
    scanf ( " %c", &size ); // blank space needed before %c

    // determine price
    switch (combo)
    {
        case 1:
        case 3: price = 3.99;
            break;
        case 2:
        case 5:
        case 6: price = 4.79;
            break;
        case 4: price = 5.89;
    }

    // other costs
    if( size == 'Y' || size == 'y' ) price += BIGGIE;
    salesTax = price * TAX_RATE;

    // print receipt
    printf( "\ncombo %d $%.2f\n", combo, price );
    printf( "tax %.2f\n", salesTax );
    printf( "total $%.2f\n", price + salesTax );

    return 0;
}

```

```

// Order fast food. print cost.
// Check (while) for correct order number

#include <stdio.h>
#define TAX_RATE 0.08 // sales tax 8%
#define BIGGIE 0.59 // biggie size 59 cents extra

int main()
{
    int combo; // combo number
    char size; // Yes or No for biggie size
    float price; // combo price
    float salesTax;

    printf( "Welcome to Hamburger Palace\n" );

    printf( "Enter the combo number (1-6): " );
    scanf("%d", &combo );
    while( combo < 1 || combo > 6 )
    {
        printf( "Enter the combo number (1-6): " );
        scanf("%d", &combo );
    }

    printf( "Would you like that biggie sized? (Y or N): " );
    scanf(" %c", &size ); // blank space needed before %c

// determine price
    switch (combo)
    {
        case 1:
        case 3: price = 3.99;
            break;
        case 2:
        case 5:
        case 6: price = 4.79;
            break;
        case 4: price = 5.89;
    }

// other costs
    if( size == 'Y' || size == 'y' ) price += BIGGIE;
    salesTax = price * TAX_RATE;

// print receipt
    printf( "\ncombo %d $%.2f\n", combo, price );
    printf( "tax %5.2f\n", salesTax );
    printf( "total $%.2f\n", price + salesTax );

    return 0;
}

```

```

Welcome to Hamburger Palace
Enter the combo number (1-6): 0
Enter the combo number (1-6): 8
Enter the combo number (1-6): 5
Would you like that biggie sized? (Y or N): n

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combo 5 $ 4.79
tax 0.38
total $ 5.17

```

```

// Order fast food. print cost.
// Check (do while) for correct order number

#include <stdio.h>
#define TAX_RATE 0.08 // sales tax 8%
#define BIGGIE 0.59 // biggie size 59 cents extra

int main()
{
    int combo; // combo number
    char size; // Yes or No for biggie siz
    float price; // combo price
    float salesTax;

    printf( "Welcome to Hamburger Palace\n" );

    do
    {
        printf( "Enter the combo number (1-6): " );
        scanf("%d", &combo );
    }while( combo < 1 || combo > 6 );

    printf( "Would you like that biggie sized? (Y or N): " );
    scanf(" %c", &size ); // blank space needed before %c

// determine price
switch (combo)
{
    case 1:
    case 3: price = 3.99;
        break;
    case 2:
    case 5:
    case 6: price = 4.79;
        break;
    case 4: price = 5.89;
}

// other costs
if( size == 'Y' || size == 'y' ) price += BIGGIE;
salesTax = price * TAX_RATE;

// print receipt
printf( "\ncombo %d $%.2f\n", combo, price );
printf( "tax %.2f\n", salesTax );
printf( "total $%.2f\n", price + salesTax );

return 0;
}

```

```

Welcome to Hamburger Palace
Enter the combo number (1-6): 0
Enter the combo number (1-6): 8
Enter the combo number (1-6): 5
Would you like that biggie sized? (Y or N): n

```

```

combo 5 $ 4.79
tax 0.38
total $ 5.17

```

```

// Order fast food. print cost.
// (family) Multiple combos on one order

#include <stdio.h>
#define TAX_RATE 0.08 // sales tax 8%
#define BIGGIE 0.59 // biggie size 59 cents extra

int main()
{
    int combo; // combo number
    char size; // Yes or No for biggie siz
    float price; // combo price
    float salesTax; // calculated sale tax
    int party, p; // number in group, loop
control
    float subTotal = 0; // sum of order prices

    printf( "Welcome to Hamburger Palace\n" );

    printf( "How many are in your party? " );
    scanf( "%d", &party );

    for ( p=1; p<=party; p++ )
    {
        do
        {
            printf( "Enter the combo number (1-6): " );
            scanf("%d", &combo );
        }while( combo < 1 || combo > 6 );

        printf( "Would you like that biggie sized? (Y or N): " );
        scanf( " %c", &size ); // blank space needed before %c

        // determine price
        switch (combo)
        {
            case 1:
            case 3: price = 3.99;
                break;
            case 2:
            case 5:
            case 6: price = 4.79;
                break;
            case 4: price = 5.89;
        }

        // other costs
        if( size == 'Y' || size == 'y' ) price += BIGGIE;
        printf( "combo %d $%5.2f\n\n", combo, price );

        subTotal += price; // party's order cummulative total
    }

    salesTax = subTotal * TAX_RATE;

    // print receipt
    printf( "\nsubtotal $%5.2f\n", subTotal );
    printf( "tax %5.2f\n", salesTax );
    printf( "total $%5.2f\n", price + salesTax );

    return 0;
}

```

```

Welcome to Hamburger Palace
How many are in your party? 3
Enter the combo number (1-6): 1
Would you like that biggie sized? (Y or N): y
combo 1 $ 4.58

Enter the combo number (1-6): 2
Would you like that biggie sized? (Y or N): y
combo 2 $ 5.38

Enter the combo number (1-6): 3
Would you like that biggie sized? (Y or N): n
combo 3 $ 3.99

subtotal $13.95
tax 1.12
total $ 5.11

```

```

// Order fast food. print cost.
// Allow multiple groups orders

#include <stdio.h>
#define TAX_RATE 0.08 // sales tax 8%
#define BIGGIE 0.59 // biggie size 59 cents extra

int main()
{
    int combo; // combo number
    char size; // Yes or No for biggie siz
    float price; // combo price
    float salesTax; // calculated sale tax
    int party, p; // number in group, loop control
    float subTotal; // sum of order prices

    printf( "Welcome to Hamburger Palace\n" );

    printf( "\nHow many are in your party? (enter 0 to end)
" );
    scanf( "%d", &party );
    printf( "\n" );

    while( party > 0 )
    {
        subTotal = 0;
        for ( p=1; p<=party; p++ )
        {
            do
            {
                printf( "Enter the combo number (1-6): " );
                scanf("%d", &combo );
            }while( combo < 1 || combo > 6 );

            printf( "Would you like that biggie sized? (Y or N): " );
            scanf(" %c", &size ); // blank space needed before %c

            // determine price
            switch (combo)
            {
                case 1:
                case 3: price = 3.99;
                    break;
                case 2:
                case 5:
                case 6: price = 4.79;
                    break;
                case 4: price = 5.89;
            }

            // other costs
            if( size == 'Y' || size == 'y' ) price += BIGGIE;
            printf( "combo %d $%.2f\n\n", combo, price );

            subTotal += price; // party's order cummulative total
        }
        salesTax = subTotal * TAX_RATE;

        // print receipt
        printf( "subtotal $%.2f\n", subTotal );
        printf( "tax %.2f\n", salesTax );
        printf( "total $%.2f\n", price + salesTax );

        // prompt for next part or end program
        printf( "\nHow many are in your party? (enter 0 to end) " );
        scanf( "%d", &party );
    }
    return 0;
}

```

Welcome to Hamburger Palace

How many are in your party? (enter 0 to end) 0

Welcome to Hamburger Palace

How many are in your party? (enter 0 to end) 2

Enter the combo number (1-6): 6

Would you like that biggie sized? (Y or N): y  
 combo 6 \$ 5.38

Enter the combo number (1-6): 1

Would you like that biggie sized? (Y or N): y  
 combo 1 \$ 4.58

subtotal \$ 9.96

tax 0.80

total \$ 5.38

How many are in your party? (enter 0 to end) 1

Enter the combo number (1-6): 7

Enter the combo number (1-6): 2

Would you like that biggie sized? (Y or N): n  
 combo 2 \$ 4.79

subtotal \$ 4.79

tax 0.38

total \$ 5.17

How many are in your party? (enter 0 to end) 0

----jGRASP: operation complete.