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Thread: [NullPointerException error](#)

Aus10 - February 11, 2018, 8:39 pm

Hi guys,

having a small error that I can't seem to fix for the life of me. Been googling around and I understand the error, but not sure how to go about fixing it so to speak.

Any help with my code is greatly appreciated.

Here is the error code:

```
Exception in thread "main" java.lang.NullPointerException
at enqueue.enqueueMethod(enqueue.java:22)
at enqueue.main(enqueue.java:8)
```

And here is my code:

Code public class pizza

```
{
    public String ingrediants;
    public String address;
    public pizza next;
    public pizza(String ingrediants, String address)
    {
        this.address = address;
        this.ingrediants = ingrediants;
        next = null;
    }
}
```

Code public class enqueue {
 public static void main(String[] args)
 {
 pizza first[] = null;
 pizza last[] = null;

```
enqueueMethod(first, last, new pizza("pepperoni", "1234 Bobcat Trail"));
enqueueMethod(first, last, new pizza("sausage", "2345 University Drive"));
deliverMethod(first, last);
enqueueMethod(first, last, new pizza("extra cheese", "3456 Rickster Road"));
enqueueMethod(first, last, new pizza("everything", "4567 King Court"));
enqueueMethod(first, last, new pizza("coffee beans", "5678 Java Circle"));
deliverMethod(first, last);
deliverMethod(first, last);
deliverMethod(first, last);
deliverMethod(first, last);
deliverMethod(first, last);
}
```

```
public static void enqueueMethod(pizza[] head, pizza[] tail, pizza thispizza)
{
```

```

if (head[0] == null)
{
head[0] = thispizza;
}
else
{
tail[0].next = thispizza;
}
tail[0] = thispizza;
return;
}

```

```

public static pizza dequeueMethod(pizza[] head, pizza[] tail)
{
pizza pizzatodeliver = null;
if (head[0] != null)
{
pizzatodeliver = head[0];
head[0] = head[0].next;
}
if (head[0] == null)
{
tail[0] = null;
}
return pizzatodeliver;
}

```

```

public static void deliverMethod(pizza[] head, pizza[] tail)
{
pizza thispizza = dequeueMethod(head, tail);
if (thispizza == null)
{
System.out.println("No deliveries pending");
return;
}
System.out.println("Deliver a pizza with ");
System.out.println(thispizza.ingredients);
System.out.println(" to ");
System.out.println(thispizza.address);
}
}

```

CAFEEEFAC - February 11, 2018, 9:08 pm

The problem here has to do with the "first" and "last" arrays. As you can see, you have set both to null at the start of your main method.

After you have set both arrays to null, you proceed by calling the "enqueueMethod" method. The first thing the enqueueMethod does is check if the first element of the "head" variable (which as you know, is the "first" array) is null. However, this won't work because the entire array is null. So Java tries to access the array to get the first element, but the array itself is null, so it won't work. Keep in mind that in Java, arrays are actually objects.

You can fix this pretty easily by doing the following:

Code // instead of doing `pizza first[] = null`, do this:
`pizza[] first = new pizza[number of elements you want in the array here];`
`pizza[] last = new pizza[same here];`
See if that works, mate.

Aus10 - February 11, 2018, 10:14 pm

(Feb 11, 2018 10:08 PM)CAFEEFAC Wrote: [CITE](#) The problem here has to do with the "first" and "last" arrays. As you can see, you have set both to null at the start of your main method.

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See if that works, mate.

I freaking love ya m8. Thank you and it works now!

In the mean time before you replied, I completely re-wrote the program and somehow fixed it, but an entirely different way. Instead I did this:

```
Code public class enqueue {
    public static void main(String[] args) {
        pizza first = null;
        pizza last = null;

        enqueueMethod(first, last, new pizza("pepperoni", "1234 Bobcat Trail"));
        enqueueMethod(first, last, new pizza("sausage", "2345 University Drive"));
        deliverMethod(first, last);
        enqueueMethod(first, last, new pizza("extra cheese", "3456 Rickster Road"));
        enqueueMethod(first, last, new pizza("everything", "4567 King Court"));
        enqueueMethod(first, last, new pizza("coffee beans", "5678 Java Circle"));
        deliverMethod(first, last);
        deliverMethod(first, last);
        deliverMethod(first, last);
        deliverMethod(first, last);
        deliverMethod(first, last);
        return;
    }

    public static void enqueueMethod(pizza head, pizza tail, pizza thispizza) {
        if (head == null) {
            head = thispizza;
        }
        else {
            tail.next = thispizza;
        }
        tail = thispizza;
    }
}
```

```
return;  
}
```

```
public static pizza dequeueMethod(pizza head, pizza tail) {  
    pizza pizzatodeliver = null;  
    if (head != null) {  
        pizzatodeliver = head;  
        head = head.next;  
    }  
    if (head == null) {  
        tail = null;  
    }  
    return pizzatodeliver;  
}
```

```
public static void deliverMethod(pizza head, pizza tail) {  
    pizza thispizza = dequeueMethod(head,tail);  
    if (thispizza == null) {  
        System.out.println("No deliveries pending");  
        return;  
    }  
    System.out.print("Deliver a pizza with ");  
    System.out.print(thispizza.ingredients);  
    System.out.print(" to ");  
    System.out.println(thispizza.address);  
}
```

Although after some testing, the edit you made is more efficient and bug-less. So going to use it. =-)

Thanks again,