```java
public class Building {

	private String ownerName;
	private String adr;
	private RentalPlace[] arrRent;
	private int nbRent;

	public Building(String ownerName, String adr, int size) {
		this.ownerName = ownerName;
		this.adr = adr;

		arrRent = new RentalPlace[size];
		nbRent = 0;
	}

	public boolean addRentalPlace (RentalPlace p) throws
ArrayIndexOutOfBoundsException, IllegalArgumentException
	{
		if (nbRent >= arrRent.length)
			throw new ArrayIndexOutOfBoundsException();

		if (p instanceof Shop) {

			if ( p.getFloor() == 0)
				arrRent[nbRent++] = new Shop( (Shop) p);
			else
				throw new IllegalArgumentException();
		}
		else {

			arrRent[nbRent++] = new Flat( (Flat) p );

		}


		return true;
	}


	public Flat mostExpensiveFlat(int f) {
		Flat max = null;

		int j=0;
/*		while (j < nbRent && max == null) {
			if ( arrRent[j] instanceof Flat && arrRent[j].getFloor()==f ) {
				max = (Flat) arrRent[j];
			}
			else
				j++;
		}
*/
		for (int i = 0; i < nbRent; i++) {

			if ( arrRent[i] instanceof Flat && arrRent[i].getFloor()==f ) {
```

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                        if (max == null || arrRent[i].calculateRent() >
max.calculateRent())
                                max = (Flat) arrRent[i];

                }

        }

        return max;

    }

    public Flat[] getFlatsWithLounge(int n) {
        Flat res[] = new Flat[nbRent];
        int j = 0;
        Flat f;

        for (int i=0; i < nbRent; i++) {
            if (arrRent[i] instanceof Flat) {
                f = (Flat) arrRent[i];

                if (f.getNbRooms()>n && f.isLounge()==true)
                    res[j++] = f;
            }
        }


        return res;
    }
}
```