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*Scene 1:*

**User: Zzzzz…. Zzzz…...**

\*Knock knock\*

…!?

Manager!

**User:** ...just…..a few...more minutes..zzz….

**Hotel employee:** User!

**Hotel employee:** This is no time to be sleeping!

**User:** wha...what? What’s going on?!

**Hotel employee:** We have a big problem…

**Hotel employee:** The hotel’s supply of water is running super low.

**Hotel employee:** If we don’t do something, our guests won’t have any water to use!

**User:** Ugh....it’s my first day at work and there’s already a problem...

**Hotel employee:** Meet me down at the lobby once you’re ready!

**\_\_\_\_\_\_\_\_\_\_\_\_\_**

**// Hotel lobby //**

**Hotel employee:** Good morning **user.**

**Hotel employee:** My name is Tommy.

**Tommy:** As I mentioned earlier, our hotel’s water supply is running really low.

**Tommy**: To get you up to speed, I want to take you to the basement where the hotel’s utilities are located.

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**// Basement of hotel //**

**Tommy**: This is the central plumbing system of the hotel.

**Tommy:** Right here is where the entire hotel’s supply of water is stored.

*\*drip drip drip\**

**User:** Where exactly does our water come from?

**Tommy:** Whenever it rains or when snow melts...

**Tommy:** water is collected in areas of land called watersheds...

**Tommy:** Water flows downhill from the watershed through creaks and streams...

**Tommy:** before it ends up at the local reservoir.

**Tommy:** All of the water is treated and filtered before it reaches the hote-

*\*drip drip drip\**

**User:** Wait...listen…

*\*drip drip drip\**

**User:** Do you hear that?

**Tommy:** Hear what?

**User:** It sounds like water dripping...

**Tommy**: Oh my god. Look! Water is leaking from those pipes!

**User:** Hurry, fix the pipes.We can’t waste any water.

**User:** I’ll grab a bucket and collect as much water as I can.

*- Start water bucket game -*

**Tommy**: We did it! The leaking stopped!

**Tommy:** We should check toilets for leaks too…

**Tommy:** but the leaks must be why we’re low on water.

???: WRONG.

???: The leaks in the pipes did not cause the shortage of water.

**User:** Who are you?

**Richard**: The name’s Richard.

**Richard:** For fifteen years I have maintained this hotel.

**Richard:** You must be the new manager.

**Tommy:** If the leaking pipes didn’t cause the water shortage, then what is causing it?

**Richard:** Weather and people.

**Tommy:** ???...

**Richard:** Thanks to climate change, we get less rainfall and the snow melts earlier during spring.

**Richard:** Less rainfall and snow melting earlier during spring means we have a lower supply of water in our local reservoir during the dry seasons.

**User:** And people?

**User:** How do people contribute to a water shortage?

**Richard:** Every year, thousands of people move into our town…

**Richard:** but since the amount of rainfall we get doesn’t change, there just isn’t enough water for everyone to use.

**Tommy**: If that’s the case, how are we going to find more water...

**User:** Hm…….

**User:** If we can’t get more water, then we have to conserve water.

**User**: While I was collecting water from the leaks, I thought of an idea. Let’s go to the hotel’s kitchen.

**Tommy**: Wait, I want to check out the garden.

**Tommy:** A lot of water is used to maintain the garden but there may be ways to save some water. **CHANGE**

**User:** Okay, let’s meet back at the lobby when we’re done.

**At the garden outside the hotel**

As **Tommy** walks through the garden, he notices sprinklers and a lady washing the pavilion with a hose.

Hotel employee: *\*\*Hm...the sprinklers look like they are watering part of the pavement instead of just the lawn…\*\**

**Tommy**: Hello! You must be the gardener.

**Gardener:** Yes, my name is Jenny.

**Lily:** I am in charge of maintaining the hotel’s garden and lawn.

**Lily:** How can I help you?

**Tommy**: We have a bit of a problem at the hotel right now.

**Lily:** Problem?

**Tommy:** There is a water shortage situation going on.

**Tommy:** Unless we find a way to start using less water, there won’t be enough for our guests to use.

**Lily:** Okay, how can I help?

**Tommy:** Is there anything you already do to try to save water?

**Lily:** Yes! When I mow the lawn, I keep the height of the grass to 5cm or 6cm.

**Lily:** The shade from the taller grass helps the roots retain water.

**Lily:** I also leave the grass clippings behind after mowing the lawn.

**Tommy:** Wait, what do grass clippings have to do with saving water?

**Lily:** Actually, the grass clippings decompose which reduces evaporation!

**Tommy:** Interesting! I never heard of that before.

**Lily:** But if we have a water shortage, it won’t be enough.

**Tommy**: Do you know if any of the garden hoses have any leaks?

**Lily:** Leaks? Why do you ask?

**Tommy**: I was with the hotel manager earlier and we found leaks in the plumbing system.

**Lily:** Ahhh. Well, the garden hoses were recently replaced with new ones that have shut-off nozzles.

**Lily:** The new shut-off nozzles automatically turn off when they are not used and also can also be adjusted to different pressure levels.

**Tommy**: How about this?

**Tommy:** When I was walking through the garden, I noticed that the sprinklers were watering part of the pavement and you were using a hose to clean the pavillion.

**Tommy:** What if you positioned the sprinklers so that it only waters the lawn.

**Tommy:** You could also use a broom instead of a hose to clean the pavillion.

**Lily:** Good idea! I can also cut down on how often the lawn is watered.

**Lily:** Once a week for an hour is enough for a healthy lawn!

**Tommy:** Alright, now we’re talking…

**Tommy:** I wonder how the manager is doing?

**At the hotel kitchen**

**User**: Hello? Is there anyone there?

**User:** Helloooooooo!

\*You notice several faucets left on with no one in sight\*

**User:** Who left the faucets on?!

**User:** I better turn off them off before any more water is wasted.

*- Start faucet game -*

**???:** I haven’t seen you before.

???: Who are you?

**User**: Who am I? My name is **user.**

**User:** Who are you?

**???:** Ahhh. You must be the new manager of the hotel.

**Olivia:** I am Olivia. I am the head chef of this hotel’s kitchen.

**Olivia:** What brings you here?

**User:** The hotel is having a shortage of water, I was just down at the basement fixing water leakage in the plumbing.

**User:** But it isn’t enough, we need your help to reduce water consumption in the kitchen.

**Olivia**: What do you suggest?

**User:** Well, when I first came in, I noticed the faucets were left on.

**Olivia**: Ahhh, yes. I was rinsing fruits and vegetables for tonight’s dinner.

**Olivia:** I must have forgotten to turn them off.

**User:** While I was at the basement collecting the leaking water with a bucket, I had an idea.

**User:** What if we collected the water used for rinsing vegetables and fruits.

**User:** The water could be used for watering plants or other purposes.

**Olivia:** That seems doable.

**Olivia:** I can also start defrosting food in the fridge overnight instead of using running water.

**User:** What else in the kitchen uses a lot of water?

**Olivia**: The dishwasher uses quite a bit of water.

**Olivia:** An average cycle of a load uses 23 litres of water.

**User:** Can I took a look at the dishwasher?

**Olivia:** Look all you want, child. It is right over there.

**\***You open the dishwasher\*

**User:** It looks like it’s half filled. When do you usually wash the dishes?

**Olivia:** We run the machine during our breaks. It’s usually half-full when we start them.

**User:** I assume that the more dishes you put in a dishwasher, the more water it would take?

**Olivia**: You would think so, but a half-full dishwasher uses the same amount of water as a one that is full.

**Olivia:** I suppose we can wait until our dishwasher is full before we run it.

**User:** Great! That should help us conserve a lot of water.

**Olivia:** Kiddo, you should know that laundry machines work in a similar way.

**Olivia:** Each load of laundry uses 48 litres of water and it doesn’t matter how many clothes you put in it.

**User:** 48 litres of water for one load of laundry? That’s crazy!

**Olivia:** That’s only if you have one of those fancy new washing machines.

**Olivia:** Old ones will use even more water than that.

**User:** I should let the other staff know that they should try to run only full loads of laundry.

**User: ...**Alright, I better get going. Thanks for your help!

**Olivia:** Good luck, kiddo.

**At the hotel lobby**

**Tommy**: **User!** I’m back!

**User:** Did you figure anything out at the garden?

**Tommy**: Yes. I learned about keeping your lawn to a certain height and to leave grass clippings behind.

**Tommy:** The taller shade from grass can help roots retain water and the grass clippings decompose with reduces evaporation.

**Tommy:** I also checked for leaks in the garden hoses, found out that we use shut-off nozzles which help save water, and found out that healthy lawns only need to be watered once a week for one hour.

**Tommy:** What about you?

**User:** For me, collecting water from the leaking pipes gave me an idea.

**User:** The water from rinsing fruits and vegetables could be reused for other purposes.

**User:** I also learned from the chef that the dishwasher and washing machine both use a lot of water.

**User:** The interesting thing is that they use the same amount of water even if the machines are half-full or full.

**Tommy:** That means we should try to fill up dishwashers and washing machines before running them!

\*There’s a moment of silence as you both think about everything that happened throughout the day.\*

**Tommy**: Do you think what we’re doing is enough? Is it enough for our guests to use as much water as they want?

**User:** No.

**Tommy:** No?

**User**: The story is only just getting started.

**User:** With climate change affecting the amount of rainfall we receive..

**User:** …and with more and more people moving into our town every year…

**User:** it is time to change the way we use water.

**User:** Everyone needs to do their part, whether that means having shorter showers or simple things like remembering to turn off the faucet.

**Richard:** Tommy! **User!** I have some news to tell you!

* Start final game -

**Richard:** Job well done you two!

**Richard:** I took a look at the water supply levels and we are safe for another day.

\*Tommy gives you a high five\*

**Tommy:** Mission accomplished!

**User:** For now…

**Tommy:** For now.

**Tommy:** We should continue to research other ways to conserve water and also spread awareness to others.

**Tommy:** Because like you said, this is only the beginning of the story...