

UNCLE SAM'S FOREST RANGERS

Episode #42

( ) - ( )  
11:30 to 12:30 P.M. C.S.T.

DECEMBER 8, 1932

THURSDAY

ORCHESTRA: RANGER SONG:

ANNOUNCER: "Uncle Sam's Forest Rangers" --

ORCHESTRA: QUARTETTE

ANNOUNCER: Many of the great mountain ranges of the country are in large part within the boundaries of our National Forests, which are protected and administered by the Federal Government for the use and enjoyment of all the people of the United States. From coast to coast and from boundary to boundary, the great system of National Forests extends. There are nearly one hundred and fifty of them, and all of them are being managed for the continuous development and conservation of the resources -- wood, water, wild life, forage for livestock, recreation, and scenic values. Timber can be cut on the National Forests only under a system which leaves the stands capable of producing continuous future crops. -- Uncle Sam's Forest Rangers are the men on the job in the National Forests, charged with their management and protection. You all know Forest Ranger Jim Robbins, and his young assistant, Jerry Quick. Let's go now to the Pine Cone Ranger District, and find out what they're doing today. Here they are at the breakfast table --

PHYSICS 341

LECTURE 10

STATISTICAL MECHANICS

ENTROPY AND THE SECOND LAW

REVIEW OF ENTROPY

Entropy is a measure of the number of microstates consistent with the macroscopic state. It is defined as  $S = k_B \ln \Omega$ , where  $\Omega$  is the number of microstates. The second law of thermodynamics states that the entropy of an isolated system never decreases. This is a statement about the direction of time and the arrow of entropy.

In statistical mechanics, entropy is related to the partition function  $Z$  by the equation  $S = k_B \ln Z + \beta U$ , where  $\beta = 1/(k_B T)$  and  $U$  is the internal energy. This equation shows that entropy is a function of energy and temperature. The partition function  $Z$  is a sum over all microstates, weighted by their Boltzmann factors  $e^{-\beta E_i}$ .

The second law can be derived from statistical mechanics. Consider a system in contact with a heat reservoir. The total entropy of the system and reservoir is constant. If the system undergoes a process that increases its entropy, the reservoir's entropy must decrease by the same amount. However, the probability of the reservoir's entropy decreasing is exponentially small, so the total entropy of the system and reservoir almost always increases.

Entropy is also related to information theory. The entropy of a system is a measure of the uncertainty or information content of the system. In a binary system, the entropy is  $S = -k_B \ln 2$  per bit of information. This connection between entropy and information theory is a key insight of statistical mechanics.

JIM: Jerry --

JERRY: Yes, Jim?

JIM: I reckon you'd better get a pretty early start up to the timber sale area this morning. If you don't get those trees marked for cutting pretty sudden, it's going to hold up the logging operation.

JERRY: Yeah, I know. Soon as I have another cup of coffee, I'll be ready to start. -- I can have another cup of coffee, can't I, Mrs. Robbins?

BESS: Why, of course. Pass me your cup, Jerry. -- You'd better have another pan-cake too, hadn't you? -- and some more bacon.

JERRY: No thanks, Mrs. Robbins. I'm full up. Just another cup of coffee is all I need.

BESS: All right -- There you are.

JERRY: Thanks.

BESS: Pass Jerry the cream, Jim.

JIM: Yep -- I guess it's a good idea for Jerry to warm up his tummy all right. It'll be cold work, marking trees up on that timber sale area today.

JERRY: You bet it will. There's a plenty cold wind blowing this morning. -- Gee, I bet that wind sure is whistling around the Lookout Station up on Windy Mountain about now. It'd sure be lonesome to have to be stationed up there this time of year.

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JIM: I reckon it's apt to get lonesome for a lookout almost any time. -- Sometimes lookouts do have company, though -- unusual company. (chuckles) They say that a few months ago one of our lookout men down in Florida came up to his lookout tower and found a big buzzard perched on the protractor looking around just as if he was trying to sight a smoke.

JERRY: That must've looked funny. Too bad we can't train buzzards to report fires. They sure see lots of country.

JIM: Yep -- Well, the Sunny Brook Lookout up on the Olympic National Forest can beat that, though. He found a mountain goat standin' there sighting through the alidade on one of our Osborn firefinders.

JERRY: Sure enough?

JIM: And the funny part about it was that the old mountain goat was actually sighting a smoke. The alidade was lined up right square on a fire that was just starting up in the forest.

JERRY: Can you beat that?!

JIM: (chuckles) No, I reckon I can't. -- By the way, Bess, I hear our old friend Ranger Mal McLeod is retiring from the Service.

BESS: No! Is that so, Jim?

JIM: Yep. After serving 27 years as District Manager on the Sierra National Forest. -- I s'pose that means the Service is losing Mrs. McLeod too - she's been just as good a ranger as Mal, - and that's going some.

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BESS: Yes, indeed!

JIM: Mal quit a good job and took the ranger examination way back in 1905 - that was when the ranger job paid \$60 a month and you had to furnish a string of horses and most of your own tools. And he's been a faithful, hard-working ranger ever since.

JERRY: Was he the inventor of the McLeod fire-fighting tool?

JIM: Yep. That was back in 1910. He had it made in a blacksmith shop at Sugar Pine - it was a little crude, but it's essentially the same McLeod tool we use in some places in fire-fighting today. -- Well, (chuckles) Mal may be on the retirement list now, but I bet he'll keep right on working for forestry. He's been at it too long now to drop out that easy. (chuckles) I reckon he feels like most of us old-timers do - that what we've done so far has been worth while, but we ought to have another hundred years or so, so we could do a real job. -- But we'll have to leave our trust to you young men in the Service, Jerry. You'll gradually be taking over the reins.

JERRY: I sure hope we can live up to it. You old timers certainly are training us right, anyhow.

JIM: Well, if you're going to be trained right, I reckon you'd better hurry up and swallow that coffee and get started up on the marking job.

March 1877

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JERRY: Yeah. I'm ready to go right now. -- I got my stuff together before breakfast.

BESS: I've already fixed up your lunch, Jerry. It's in there on the kitchen table.

JERRY: All right, thanks. -- (going off) I'll cover as much area as I can today, Jim.

JIM: Take time to do it right though, Jerry. We want all the trees marked that should be cut and all those left that should keep on growing.

JERRY: (off) Don't worry, Jim.

BESS: (calling after him) And be sure to keep bundled up warm, Jerry --

(MUSICAL INTERLUDE)

(PHONE RINGS)

JIM: (answering phone) Pine Cone Ranger Station -- Yeah, this is Jim. -- Oh, hello, Al. How goes it? -- huh? Well, Jerry ought to be there before now. He left here early this morning. -- Yeah, I know. -- Well, he ought to be there any time now. I guess he must've got side-tracked somewhere along the way -- Yeah. -- All right. So long, Al. (HANGS UP RECEIVER)

BESS: (coming up) Who was that, Jim?

JIM: That was Al Perkins, the logging camp boss. He says Jerry hasn't showed up yet, and it's holding them up with their work. They've cut nearly all the timber that's been marked.

The first part of the report deals with the general situation of the country and the progress of the work done during the year. It is followed by a detailed account of the various projects and the results achieved. The report concludes with a summary of the work done and a list of the names of the persons who have been engaged in the work.

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The second part of the report deals with the financial statement of the year. It shows the total amount of money received and the amount spent. It also shows the balance of the account at the end of the year. The report concludes with a list of the names of the persons who have been engaged in the work.

BESS: Jerry ought to be there by now. -- You don't suppose he could have had an accident, Jim?

JIM: No, I guess he must've run across something that needed taking care of, on his way up. --

BESS: Oh dear. I hope nothing serious has happened.

JIM: He'd probably phone in if it was anything important. -- I guess he'll be there before long now --

(MUSICAL INTERLUDE)

(PHONE RINGS)

JIM: (answering phone) Hello -- Pine Cone Ranger Station -- Yeah -- Huh? Hasn't showed up yet? --- Hmm, that's strange -- No, we haven't had any word from him here. -- Yeah, I know, Al. I guess I'll have to come up there myself and start marking timber -- Yeah, I'll be right up, Al -- So long. (HANGS UP RECEIVER) --- (To Bess) Say, Bess, that's funny. Jerry hasn't showed up at the logging camp yet.

BESS: He hasn't? Oh, dear, what do you suppose is wrong?

JIM: Darned if I know, Bess. He must've got sidetracked on some other job, but I don't know what it would be that would take him this long.

BESS: I'm worried about him, Jim. He's usually so reliable, you know.

JIM: Yes, I always did figure I could count on 'im. And he knows this marking job is urgent. It's got to be started right away so the logging operation won't be held up. -- Looks like I'll have to postpone what I'm doing here and go up there myself, Bess.

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BESS: Oh, that's a shame.

JIM: Yep. Half a day's gone already now. We'll have to do some fast work or the camp'll be idle. -- Don't wait supper on me, Bess.

BESS: Yes, I will to. You'll need a good warm supper when you get back -- And you be sure and let me know if you find Jerry, Jim. I'm afraid something has happened to him.

(MUSICAL INTERLUDE)

JIM: (calls) Al -- oh, Al --

PERKINS: (off) Yeah -- Hello, Jim. -- (coming up) Say, where's that young assistant of yours, huh?

JIM: Hasn't he showed up yet, Al?

PERKINS: Haven't seen hide nor hair of 'im. Where d'you s'pose he went to?

JIM: Blamed if I know, Al. He hadn't phoned in to the station when I left.

PERKINS: Looks like he must've kited out on you.

JIM: I don't think he'd do that, Al. I've always been able to rely on the boy before. -- I guess he must've run onto something else that needed taking care of -- something important.

PERKINS: Well, this here job's important, too. We can't afford to have our camp idle here, Jim.

JIM: I know, Al. That's why I came up.

PERKINS: All right. -- It's a mighty good looking stand of timber -- this here, Jim.

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JIM:               Yep so it is, Al. You boys'll be able to get a lot of good lumber off this area and still leave a good stand of young growth for the next crop. -- It'll be easy to mark the trees you can cut here.

PERKINS:          Yeah. It ought to be.

JIM:               Here's one you can take, for a starter, Al. You ought to get three good logs out of this one, easy.

PERKINS:          Yep. She's sound as a dollar.

JIM:               Well, here goes --

(FADEOUT WITH SOUND OF CUTTING BLAZE ON TREE, AND STAMPING IT WITH BUTT OF AXE)

(MUSICAL INTERLUDE)

(SOUND OF DOOR)

JIM:               (calls) Hello ---- Bess?

BESS:              (off) Is that you, Jim?

JIM:               Yep.

BESS:              (coming up) Did you find Jerry?

JIM:               No. Hasn't he called in here yet, Bess?

BESS:              No. What on earth could have happened, Jim?

JIM:               Hmm. Something's wrong, all right. I didn't see any sign of him along the way to the logging camp, so it couldn't have been an accident along the way.

BESS:              I'm awfully worried, Jim. I can't imagine what has happened.

JIM:               Well, I'd like to know what's going on --

BESS:              Listen. There's some one -- That must be Jerry now -- coming in the back way --

JIM:               Yep. I reckon he's going to have some explainin' to do, too.





BESS: Oh, Jim, you mustn't be too hard on him, now --  
I'm sure there was a good reason --

(SOUND OF DOOR)

JERRY: (coming in) Hello, folks --

BESS: Jerry! Where have you been?

JIM: (sternly) Yep. Where've you been all day, young  
fellow?

JERRY: Why -- uh -- I had something to 'tend to, Jim.

JIM: What was that?

JERRY: Well - uh -- something important.

JIM: Official business?

JERRY: Well -- not exactly --

JIM: Look here, Quick. I guess you realize that absence  
from official duty without permission is apt to be  
a serious matter, with us here in the Service?

JERRY: Yes, I know.

JIM: You knew that marking job was an urgent matter -  
it has to be done promptly to fulfill our part of  
the timber sale agreement with the operator?

JERRY: Yes, I know, but -- I couldn't make it, Jim.

JIM: (kindly) What's the matter, Jerry? Something gone  
wrong?

JERRY: N-no.

JIM: Have you got in some kind of trouble?

JERRY: No. -- I -- uh -- I'd rather not say --



JIM: Well, I'm sorry, Jerry, -- but I'm going to have to report you to the Supervisor as absent from official duty without permission -- and of course you know that means that disciplinary action will be taken.

JERRY: Yes -- I know -- Jim --

BESS: Oh, Jerry, I'm so sorry. Can't you tell us what the matter was?

JERRY: I'm afraid I can't, Mrs. Robbins.

BESS: Well -- then let's not say anything more about it just now -- Supper's all ready, and you and Jim both must be starved by now.

JERRY: Yeah -- I guess I'd better (going off) go get cleaned up a little bit, first.

(PAUSE)

BESS: What on earth can be the matter, Jim? Jerry's been so faithful ever since he came here.

JIM: So he has. -- I didn't think he was the kind of young fellow that'd side-step a hard job -- or go gallivantin' off without a good reason.

BESS: I'm sure there must be some reason --

JIM: Well, it looks like he's either done something he's ashamed to admit or else he's hiding something. --- I don't like this Bess. I don't like to have to perform the duty of reporting him absent from the job without a reason -- but I guess the boy'll have to face the music.

(SOUND OF DOG BARKING, OFF)

The first part of the book is devoted to a general survey of the history of the world from the beginning of time to the present day.	100
The second part of the book is devoted to a detailed account of the history of the British Empire from its origin to the present day.	100
The third part of the book is devoted to a detailed account of the history of the United States of America from its origin to the present day.	100
The fourth part of the book is devoted to a detailed account of the history of the French Republic from its origin to the present day.	100
The fifth part of the book is devoted to a detailed account of the history of the German Empire from its origin to the present day.	100
The sixth part of the book is devoted to a detailed account of the history of the Russian Empire from its origin to the present day.	100
The seventh part of the book is devoted to a detailed account of the history of the Japanese Empire from its origin to the present day.	100
The eighth part of the book is devoted to a detailed account of the history of the Chinese Empire from its origin to the present day.	100
The ninth part of the book is devoted to a detailed account of the history of the Indian Empire from its origin to the present day.	100
The tenth part of the book is devoted to a detailed account of the history of the African Empire from its origin to the present day.	100
The eleventh part of the book is devoted to a detailed account of the history of the American Republics from its origin to the present day.	100
The twelfth part of the book is devoted to a detailed account of the history of the South American Republics from its origin to the present day.	100
The thirteenth part of the book is devoted to a detailed account of the history of the West Indian Republics from its origin to the present day.	100
The fourteenth part of the book is devoted to a detailed account of the history of the Central American Republics from its origin to the present day.	100
The fifteenth part of the book is devoted to a detailed account of the history of the Caribbean Republics from its origin to the present day.	100
The sixteenth part of the book is devoted to a detailed account of the history of the South American Republics from its origin to the present day.	100
The seventeenth part of the book is devoted to a detailed account of the history of the West Indian Republics from its origin to the present day.	100
The eighteenth part of the book is devoted to a detailed account of the history of the Central American Republics from its origin to the present day.	100
The nineteenth part of the book is devoted to a detailed account of the history of the Caribbean Republics from its origin to the present day.	100
The twentieth part of the book is devoted to a detailed account of the history of the South American Republics from its origin to the present day.	100

BESS: Listen - what's Rex barking for? -- Do you suppose somebody's prowling around outside?

JIM: Maybe I'd better go take a look --

BESS: Yes, there might be somebody out there.

(SOUND OF DOOR)

JIM: (way off) What's the matter, Rex? (calling)  
Hello --? Anybody there? --- (coming back) I  
don't see anything out of the ordinary, Bess.  
Might've been some animal prowling around the  
hen house. --

BESS: Yes, that might be what it is.

JIM: Or maybe Rex was having bad dreams.

BESS: Well - supper's waiting. -- I'd better call Jerry. --

JIM: Uh huh.

BESS: (calls) Are you ready for supper, Jerry? -- Jerry --  
(going off) -- Oh, Jerry -- Jerry -- (coming back)  
He isn't in his room, Jim.

JIM: That's funny.

BESS: Where do you suppose he is, Jim? -- (calls) Jerry --  
Oh, Jerry --

JIM: Hmm. Looks like the boy's disappeared again. He  
must've slipped ou the front door while I was out  
back a minute ago.

BESS: Jim, what do you suppose is wrong?

JIM: I don't know, Bess -- Something's up, all right --  
something's going on --

(FADEOUT)

The first part of the document is a list of names and titles, including:
   
 1. The Hon. J. G. ...
   
 2. The Hon. ...
   
 3. The Hon. ...
   
 4. The Hon. ...
   
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The second part of the document is a list of names and titles, including:
   
 6. The Hon. ...
   
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ANNOUNCER:

Yes, sir, something is going on. Where was Jerry today? And why was he so reluctant to explain? And why did he slip away from the Ranger Station again at supper time? --

Tune in next Thursday at this same hour when we continue the story of Ranger Jim and Jerry, guardians of the Pine Cone District of the National Forest.

"Uncle Sam's Forest Rangers" comes to you as a presentation of the National Broadcasting Company, with the cooperation of the United States Forest Service.

pmp - 12:20 P. M.  
November 29, 1932.

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The first part of the document is a list of names and their corresponding addresses. The names are listed in a column on the left, and the addresses are listed in a column on the right. The names are:

John Smith, 123 Main St, New York, NY  
 Jane Doe, 456 Elm St, Boston, MA  
 Robert Johnson, 789 Oak St, Philadelphia, PA  
 Mary White, 101 Pine St, Chicago, IL  
 William Brown, 202 Cedar St, San Francisco, CA  
 Elizabeth Green, 303 Birch St, Washington, DC  
 James Black, 404 Spruce St, St. Louis, MO  
 Sarah Grey, 505 Willow St, Baltimore, MD  
 Thomas Red, 606 Ash St, New Orleans, LA  
 Margaret Blue, 707 Hickory St, Portland, ME  
 Charles Yellow, 808 Sycamore St, Denver, CO  
 Anna Purple, 909 Magnolia St, Seattle, WA  
 Benjamin Orange, 1010 Poplar St, Minneapolis, MN  
 Victoria Pink, 1111 Dogwood St, Phoenix, AZ  
 Daniel Brown, 1212 Redwood St, Salt Lake City, UT  
 Rebecca Green, 1313 Cypress St, Las Vegas, NV  
 Matthew White, 1414 Juniper St, Salt Lake City, UT  
 Sophia Black, 1515 Fir St, Salt Lake City, UT  
 Christopher Grey, 1616 Hemlock St, Salt Lake City, UT  
 Isabella Blue, 1717 Spruce St, Salt Lake City, UT  
 Alexander Yellow, 1818 Fir St, Salt Lake City, UT  
 Emily Orange, 1919 Cedar St, Salt Lake City, UT  
 Jacob Purple, 2020 Pine St, Salt Lake City, UT  
 Olivia Pink, 2121 Birch St, Salt Lake City, UT  
 Noah Brown, 2222 Oak St, Salt Lake City, UT  
 Ava Green, 2323 Elm St, Salt Lake City, UT  
 Lucas White, 2424 Maple St, Salt Lake City, UT  
 Mia Black, 2525 Willow St, Salt Lake City, UT  
 Ethan Grey, 2626 Spruce St, Salt Lake City, UT  
 Harper Blue, 2727 Fir St, Salt Lake City, UT  
 Benjamin Yellow, 2828 Cedar St, Salt Lake City, UT  
 Evelyn Orange, 2929 Birch St, Salt Lake City, UT  
 Daniel Purple, 3030 Spruce St, Salt Lake City, UT  
 Victoria Pink, 3131 Fir St, Salt Lake City, UT  
 Jacob Brown, 3232 Cedar St, Salt Lake City, UT  
 Emily Green, 3333 Birch St, Salt Lake City, UT  
 Noah White, 3434 Spruce St, Salt Lake City, UT  
 Ava Black, 3535 Fir St, Salt Lake City, UT  
 Lucas Grey, 3636 Cedar St, Salt Lake City, UT  
 Mia Blue, 3737 Birch St, Salt Lake City, UT  
 Ethan Yellow, 3838 Spruce St, Salt Lake City, UT  
 Olivia Orange, 3939 Fir St, Salt Lake City, UT  
 Jacob Purple, 4040 Cedar St, Salt Lake City, UT  
 Isabella Pink, 4141 Birch St, Salt Lake City, UT  
 Benjamin Brown, 4242 Spruce St, Salt Lake City, UT  
 Sophia Green, 4343 Fir St, Salt Lake City, UT  
 Christopher White, 4444 Cedar St, Salt Lake City, UT  
 Victoria Black, 4545 Birch St, Salt Lake City, UT  
 Daniel Grey, 4646 Spruce St, Salt Lake City, UT  
 Rebecca Blue, 4747 Fir St, Salt Lake City, UT  
 Matthew Yellow, 4848 Cedar St, Salt Lake City, UT  
 Sophia Orange, 4949 Birch St, Salt Lake City, UT  
 Benjamin Purple, 5050 Spruce St, Salt Lake City, UT  
 Victoria Pink, 5151 Fir St, Salt Lake City, UT  
 Jacob Brown, 5252 Cedar St, Salt Lake City, UT  
 Emily Green, 5353 Birch St, Salt Lake City, UT  
 Noah White, 5454 Spruce St, Salt Lake City, UT  
 Ava Black, 5555 Fir St, Salt Lake City, UT  
 Lucas Grey, 5656 Cedar St, Salt Lake City, UT  
 Mia Blue, 5757 Birch St, Salt Lake City, UT  
 Ethan Yellow, 5858 Spruce St, Salt Lake City, UT  
 Olivia Orange, 5959 Fir St, Salt Lake City, UT  
 Jacob Purple, 6060 Cedar St, Salt Lake City, UT  
 Isabella Pink, 6161 Birch St, Salt Lake City, UT  
 Benjamin Brown, 6262 Spruce St, Salt Lake City, UT  
 Sophia Green, 6363 Fir St, Salt Lake City, UT  
 Christopher White, 6464 Cedar St, Salt Lake City, UT  
 Victoria Black, 6565 Birch St, Salt Lake City, UT  
 Daniel Grey, 6666 Spruce St, Salt Lake City, UT  
 Rebecca Blue, 6767 Fir St, Salt Lake City, UT  
 Matthew Yellow, 6868 Cedar St, Salt Lake City, UT  
 Sophia Orange, 6969 Birch St, Salt Lake City, UT  
 Benjamin Purple, 7070 Spruce St, Salt Lake City, UT  
 Victoria Pink, 7171 Fir St, Salt Lake City, UT  
 Jacob Brown, 7272 Cedar St, Salt Lake City, UT  
 Emily Green, 7373 Birch St, Salt Lake City, UT  
 Noah White, 7474 Spruce St, Salt Lake City, UT  
 Ava Black, 7575 Fir St, Salt Lake City, UT  
 Lucas Grey, 7676 Cedar St, Salt Lake City, UT  
 Mia Blue, 7777 Birch St, Salt Lake City, UT  
 Ethan Yellow, 7878 Spruce St, Salt Lake City, UT  
 Olivia Orange, 7979 Fir St, Salt Lake City, UT  
 Jacob Purple, 8080 Cedar St, Salt Lake City, UT  
 Isabella Pink, 8181 Birch St, Salt Lake City, UT  
 Benjamin Brown, 8282 Spruce St, Salt Lake City, UT  
 Sophia Green, 8383 Fir St, Salt Lake City, UT  
 Christopher White, 8484 Cedar St, Salt Lake City, UT  
 Victoria Black, 8585 Birch St, Salt Lake City, UT  
 Daniel Grey, 8686 Spruce St, Salt Lake City, UT  
 Rebecca Blue, 8787 Fir St, Salt Lake City, UT  
 Matthew Yellow, 8888 Cedar St, Salt Lake City, UT  
 Sophia Orange, 8989 Birch St, Salt Lake City, UT  
 Benjamin Purple, 9090 Spruce St, Salt Lake City, UT  
 Victoria Pink, 9191 Fir St, Salt Lake City, UT  
 Jacob Brown, 9292 Cedar St, Salt Lake City, UT  
 Emily Green, 9393 Birch St, Salt Lake City, UT  
 Noah White, 9494 Spruce St, Salt Lake City, UT  
 Ava Black, 9595 Fir St, Salt Lake City, UT  
 Lucas Grey, 9696 Cedar St, Salt Lake City, UT  
 Mia Blue, 9797 Birch St, Salt Lake City, UT  
 Ethan Yellow, 9898 Spruce St, Salt Lake City, UT  
 Olivia Orange, 9999 Fir St, Salt Lake City, UT  
 Jacob Purple, 10000 Cedar St, Salt Lake City, UT

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